



## 阿托伐他汀 ( Atorvastatin ) 简介

化学名称:(3R,5R)-7-[2-(4-氟苯基)-3-苯基-4-(苯基氨基甲酰基)-5-异丙基-吡咯-1-基]-3,5-二羟基庚酸

分子式: $C_{66}H_{68}CaF_2N_4O_{10}$

分子量:1155.34000

CAS No:134523-03-8

阿托伐他汀 ( 英语 : Atorvastatin ) , 商品名为立普妥 ( Lipitor ) , 是降低血液胆固醇水平的常见药物。由辉瑞公司装造。它是一种他汀类药物 , 用于降低血液中的胆固醇。它还可稳定血液斑块和预防中风。类似于所有他汀类药物 , 阿托伐他汀通过抑制肝组织中 , 一种对胆固醇制造起关键作用的酵素——羟甲基戊二酸单酰辅酶 A 还原酶 ( HMG-CoA reductase ) , 以减少体内制造胆固醇。

阿托伐他汀于 1985 年由布鲁斯·罗斯·帕克·戴维斯华纳-兰伯特公司 ( Bruce Roth of Parke-Davis Warner-Lambert Company ) 首次合成 ( 现为辉瑞公司/Pfizer ) , 是制药历史上销售最好的药物。它自 1996 年被美国食品药品监督管理局批准以来 , 累计销售额超过 1,250 亿美元 , 并连续保持此销售冠军纪录达十年。通用阿托伐他汀 , 由沃森制药公司和兰伯西实验室制造 , 并于 2011 年 11 月 30 日开始于美国上市。

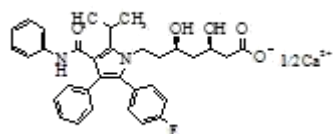


### Atorvastatin Calcium Salt

CAS No. 134523-03-8

C<sub>33</sub>H<sub>34</sub>FN<sub>2</sub>O<sub>5</sub> · 1/2 Ca M.W. 557.65 1/2 40.08

**RKDA-121**

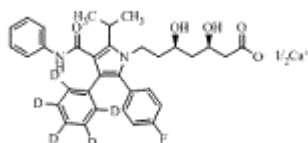


### Atorvastatin-d5 Calcium Salt

CAS No. 222412-82-0

C<sub>33</sub>H<sub>29</sub>FN<sub>2</sub>O<sub>5</sub>D<sub>5</sub> · 1/2 Ca M.W. 562.68 1/2 40.08

**RKDA-122**

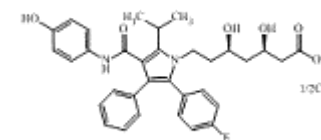


### para-Hydroxy Atorvastatin Calcium Salt

CAS No. 265989-44-4

C<sub>33</sub>H<sub>34</sub>FN<sub>2</sub>O<sub>6</sub> · 1/2 Ca M.W. 573.64 1/2 40.08

**RKDA-123**

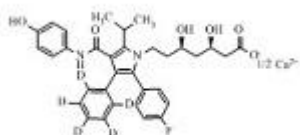


### para-Hydroxy Atorvastatin-d5 Calcium Salt

CAS No. 265989-45-5

C<sub>33</sub>H<sub>29</sub>FN<sub>2</sub>O<sub>6</sub>D<sub>5</sub> · 1/2 Ca M.W. 578.68 1/2 40.08

**RKDA-124**

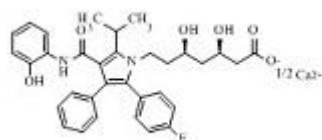


### ortho-Hydroxy Atorvastatin Calcium Salt

CAS No. 265989-46-6

C<sub>33</sub>H<sub>34</sub>FN<sub>2</sub>O<sub>6</sub> · 1/2 Ca M.W. 573.64 1/2 40.08

**RKDA-125**

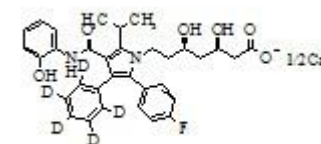


### ortho-Hydroxy Atorvastatin-d5 Calcium Salt

CAS No. 265989-47-7

C<sub>33</sub>H<sub>29</sub>D<sub>5</sub>FN<sub>2</sub>O<sub>6</sub> · 1/2 Ca M.W. 578.67 1/2 40.08

**RKDA-126**

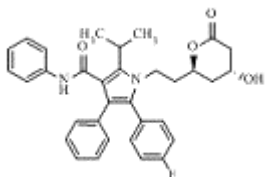


### Atorvastatin EP Impurity H (Atorvastatin Lactone)

CAS No. 125995-03-1

C<sub>33</sub>H<sub>33</sub>FN<sub>2</sub>O<sub>4</sub> M.W. 540.64

**RKDA-127**

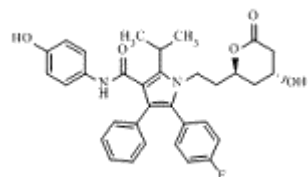


### para-Hydroxy Atorvastatin Lactone

CAS No. 163217-70-7

C<sub>33</sub>H<sub>33</sub>FN<sub>2</sub>O<sub>4</sub> M.W. 556.64

**RKDA-128**

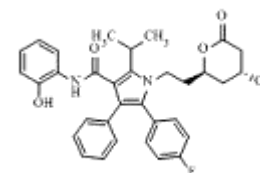


### ortho-Hydroxy Atorvastatin Lactone

CAS No. 163217-74-1

C<sub>33</sub>H<sub>33</sub>FN<sub>2</sub>O<sub>5</sub> M.W. 556.63

**RKDA-129**

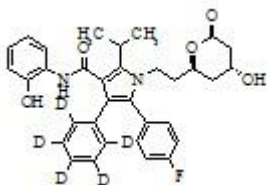




## Ortho-Hydroxy Atorvastatin-d5 Lactone

C33H28FN2O5D5 M.W. 561.67

RKDA-130

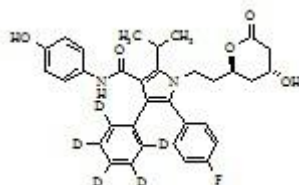


## para-Hydroxy Atorvastatin-d5 Lactone

CAS No. 265989-49-9

C33H28FN2O5D5 M.W. 561.67

RKDA-131

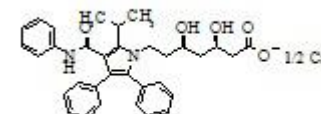


## Defluoro Atorvastatin Calcium Salt

CAS No. 433289-84-0

C33H35N2O5.Ca M.W. 539.66 40.08

RKDA-132

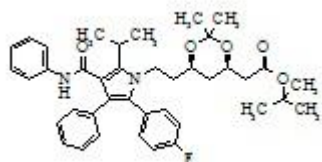


## Atorvastatin Acetonide tert-Butyl Ester

CAS No. 125971-95-1

C40H47FN2O5 M.W. 654.83

RKDA-133

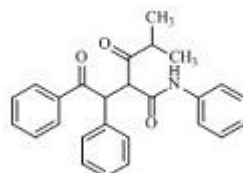


## Atorvastatin Impurity 23

CAS No. 444577-70-2

C26H25NO3 M.W. 399.49

RKDA-1262

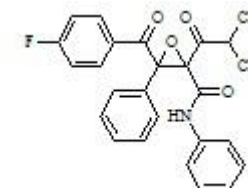


## Atorvastatin Epoxydione Impurity

CAS No. 148146-51-4

C26H22FNO4 M.W. 431.47

RKDA-138

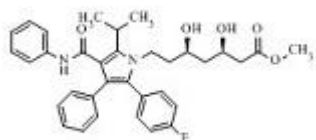


## Atorvastatin Methyl Ester

CAS No. 345891-62-5

C34H37FN2O5 M.W. 572.68

RKDA-136

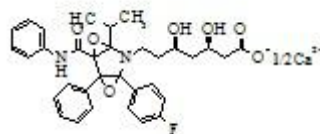


## Atorvastatin Diepoxide Calcium Salt

CAS No. NA

C66H68CaF2N4O14 M.W. 1219.34

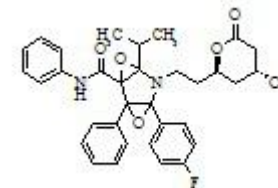
RKDA-137



## Atorvastatin Lactone Diepoxide

C33H33FN2O6 M.W. 572.64

RKDA-1310



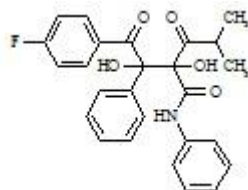


### Dihydroxy Diketo Atorvastatin Impurity

CAS No. 1046118-44-8

C<sub>26</sub>H<sub>24</sub>FNO<sub>5</sub> M.W. 449.48

RKDA-139

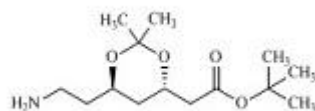


### Atorvastatin Impurity 25

CAS No. 1105067-89-7

C<sub>14</sub>H<sub>27</sub>NO<sub>4</sub> M.W. 273.37

RKDA-1264

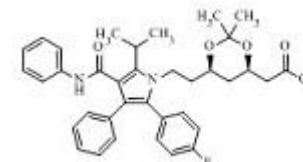


### Atorvastatin Impurity 2

CAS No. 581772-29-4

C<sub>36</sub>H<sub>39</sub>FN<sub>2</sub>O<sub>5</sub> M.W. 598.72

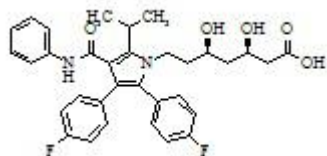
RKDA-1210



### Atorvastatin EP Impurity C

C<sub>33</sub>H<sub>34</sub>F<sub>2</sub>N<sub>2</sub>O<sub>5</sub> M.W. 576.65

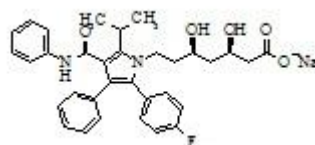
RKDA-1212



### Atorvastatin Sodium Salt (Atorvastatin Impurity 8)

C<sub>33</sub>H<sub>34</sub>F<sub>2</sub>N<sub>2</sub>O<sub>5</sub>. Na M.W. 557.65 22.99

RKDA-1213

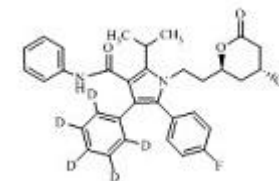


### Atorvastatin-d5 Lactone

CAS No. 125995-03-1 (non-labelled)

C<sub>33</sub>H<sub>28</sub>FN<sub>2</sub>O<sub>4</sub>D<sub>5</sub> M.W. 545.67

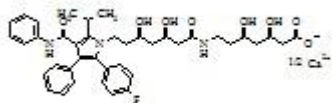
RKDA-1214



### Atorvastatin EP Impurity F

C<sub>40</sub>H<sub>47</sub>FN<sub>3</sub>O<sub>8</sub> . 1/2Ca M.W. 716.83 20.04

RKDA-1215

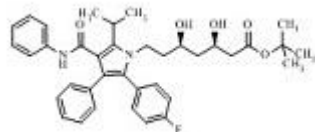


### Atorvastatin *tert*-Butyl Ester (Atorvastatin Impurity 3)

CAS No. 134395-00-9

C<sub>37</sub>H<sub>43</sub>FN<sub>2</sub>O<sub>5</sub> M.W. 614.76

RKDA-1216

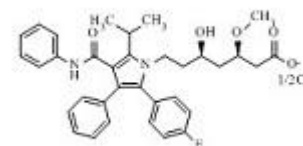


### O-Methyl Atorvastatin Calcium Salt

CAS No. 887196-29-4

C<sub>34</sub>H<sub>36</sub>FN<sub>2</sub>O<sub>5</sub>. 0.5 Ca M.W. 571.67 20.04

RKDA-1217





# 深圳瑞恺德生物科技有限公司

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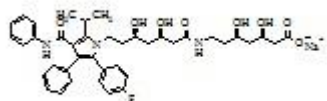
## Atorvastatin EP Impurity F (Amide Impurity)

### Sodium Salt

CAS No. 1371615-56-3

C40H47FN3O8. Na M.W. 716.83 22.99

### RKDA-1219

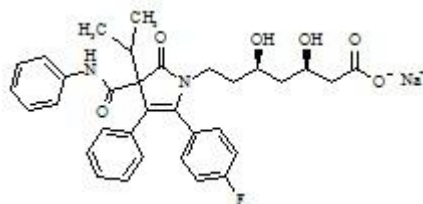


## Atorvastatin Lactam Sodium Salt Impurity

CAS No. 148217-40-7

C33H34FN2O6 Na M.W. 573.65 22.99

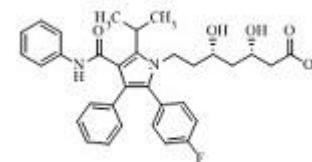
### RKDA-1218



## Atorvastatin EP Impurity E

C33H35FN2O5 M.W. 558.65

### RKDA-1220

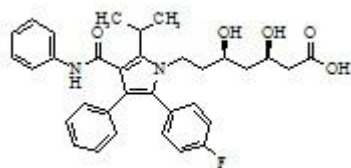


## Atorvastatin

CAS No. 134523-00-5

C33H35FN2O5 M.W. 558.66

### PF-0011

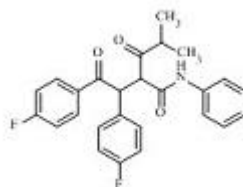


## Atorvastatin Impurity 24

CAS No. 693793-82-7

C26H23F2NO3 M.W. 435.47

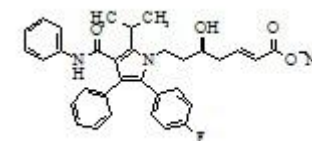
### RKDA-1263



## Atorvastatin Dehydro Sodium Salt (E/Z mixture)

C33H32FN2O4. Na M.W. 539.63 22.99

### RKDA-1221

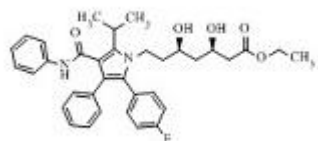


## Atorvastatin Ethyl Ester

CAS No. 1146977-93-6

C35H39FN2O5 M.W. 586.70

### RKDA-1222

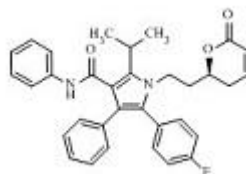


## Atorvastatin Dehydro Lactone

CAS No. 442851-50-5

C33H31FN2O3 M.W. 522.62

### RKDA-1223

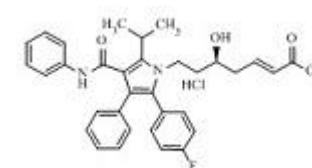


## Atorvastatin 3-Deoxyhept-2E-Enoic Acid HCl

CAS No. 1105067-93-3 (free base)

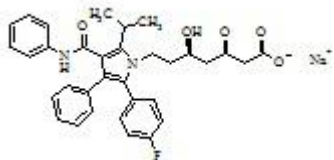
C33H33FN2O4. HCl M.W. 540.64 36.46

### RKDA-1224

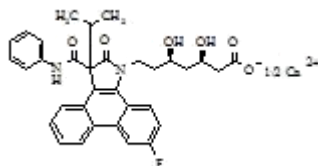




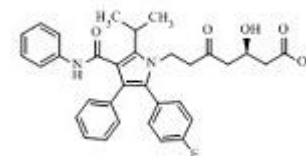
**Atorvastatin 3-Oxo Sodium Salt**  
C33H32FN2O5.Na M.W. 555.63 22.99  
**RKDA-1225**



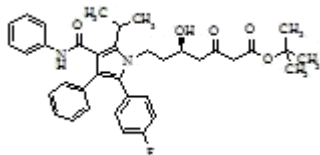
**Atorvastatin Lactam Phenanthrene Calcium Salt**  
CAS No. N/A  
C33H32FN2O6 Ca M.W. 571.63 20.04  
**RKDA-1226**



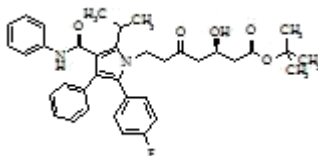
**5-Oxo Atorvastatin**  
CAS No. 1391052-82-6  
C33H33FN2O5 M.W. 556.63  
**RKDA-1227**



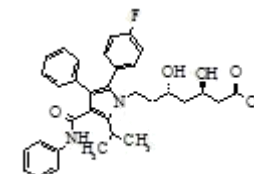
**3-Oxo Atorvastatin tert-Butyl Ester**  
CAS No. 134394-98-2  
C37H41FN2O5 M.W. 612.75  
**RKDA-1229**



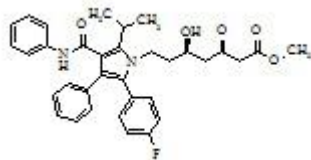
**5-Oxo Atorvastatin tert-Butyl Ester**  
C37H41FN2O5 M.W. 612.75  
**RKDA-1230**



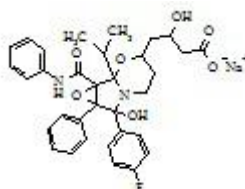
**Atorvastatin Calcium Trihydrate EP Impurity B**  
CAS No. N/A  
C33H35FN2O5 M.W. 558.66  
**RKDA-1231**



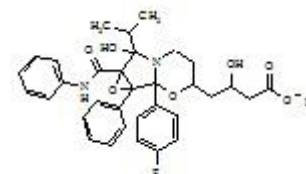
**Atorvastatin Impurity 9**  
CAS No. N/A  
C34H35FN2O5 M.W. 570.67  
**RKDA-1233**



**Atorvastatin Cyclic Sodium Salt (Isopropyl) Impurity**  
CAS No. 873950-17-5  
C33H34FN2O7 Na M.W. 589.65 22.99  
**RKDA-1234**



**Atorvastatin Cyclic Sodium Salt (Fluorophenyl) Impurity**  
CAS No. 1315629-79-8; 873950-18-6  
C33H34FN2O7. Na M.W. 589.65 22.99  
**RKDA-1235**



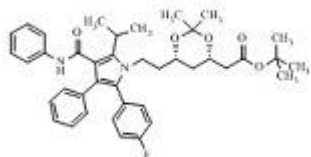


### Atorvastatin Impurity 33

CAS No. 472967-95-6

C<sub>40</sub>H<sub>47</sub>FN<sub>2</sub>O<sub>5</sub> M.W. 654.82

RKDA-1236

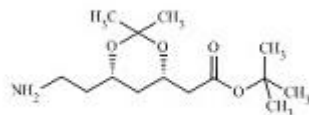


### Atorvastatin Impurity 10

CAS No. 947586-93-8

C<sub>14</sub>H<sub>27</sub>NO<sub>4</sub> M.W. 273.37

RKDA-1237

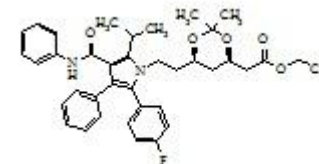


### Atorvastatin Impurity 11

CAS No. N/A

C<sub>38</sub>H<sub>43</sub>FN<sub>2</sub>O<sub>5</sub> M.W. 626.78

RKDA-1238

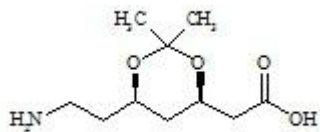


### Atorvastatin Impurity 12

CAS No. N/A

C<sub>10</sub>H<sub>19</sub>NO<sub>4</sub> M.W. 217.27

RKDA-1239

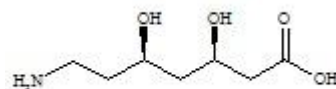


### Atorvastatin Impurity 13

CAS No. N/A

C<sub>7</sub>H<sub>15</sub>NO<sub>4</sub> M.W. 177.20

RKDA-1240

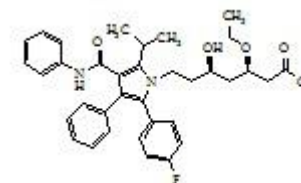


### 3-O-Ethyl Atorvastatin

CAS No. N/A

C<sub>35</sub>H<sub>38</sub>FN<sub>2</sub>O<sub>5</sub> M.W. 585.70

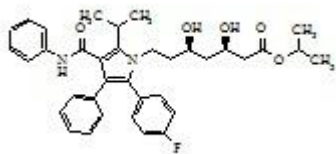
RKDA-1241



### Atorvastatin Isopropyl Ester

C<sub>36</sub>H<sub>41</sub>FN<sub>2</sub>O<sub>5</sub> M.W. 600.74

RKDA-1242

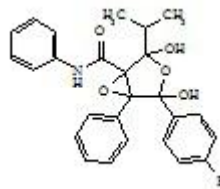


### Atorvastatin Epoxy Tetrahydrofuran Impurity

CAS No. 873950-19-7

C<sub>26</sub>H<sub>24</sub>FNO<sub>5</sub> M.W. 449.48

RKDA-1243

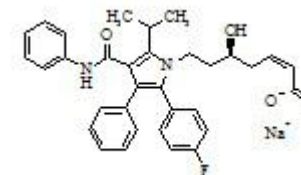


### Atorvastatin 3-Deoxyhept-2Z-Enoic Acid Sodium Salt

CAS No. 1659317-56-2

C<sub>33</sub>H<sub>32</sub>FN<sub>2</sub>O<sub>4</sub>. Na M.W. 539.63 22.99

RKDA-1244



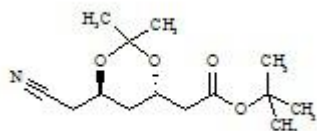


### Atorvastatin Impurity 14

CAS No. 186508-95-2

C<sub>14</sub>H<sub>23</sub>NO<sub>4</sub> M.W. 269.34

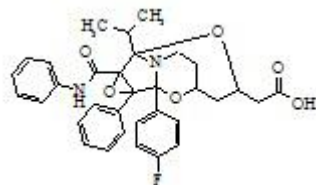
RKDA-1245



### Atorvastatin Epoxy Pyrrolooxazin Tricyclic Analog

C<sub>33</sub>H<sub>33</sub>FN<sub>2</sub>O<sub>6</sub> M.W. 572.64

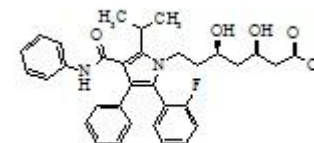
RKDA-1246



### Atorvastatin 2-Fluoro Analog

C<sub>33</sub>H<sub>34</sub>FN<sub>2</sub>O<sub>5</sub> M.W. 557.65

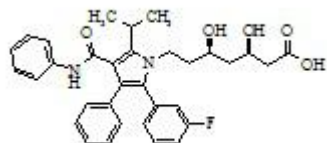
RKDA-1247



### Atorvastatin 3-Fluoro Analog

C<sub>33</sub>H<sub>34</sub>FN<sub>2</sub>O<sub>5</sub> M.W. 557.65

RKDA-1248

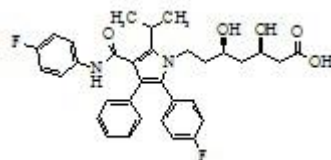


### Atorvastatin Impurity 15

CAS No. 693793-42-9

C<sub>33</sub>H<sub>33</sub>F<sub>2</sub>N<sub>2</sub>O<sub>5</sub> M.W. 575.64

RKDA-1249

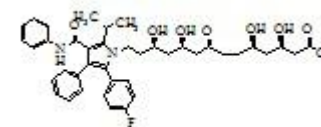


### Atorvastatin Impurity 16

CAS No. 1450739-65-7

C<sub>40</sub>H<sub>47</sub>FN<sub>2</sub>O<sub>8</sub> M.W. 702.83

RKDA-1250

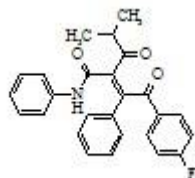


### Atorvastatin Impurity 17

CAS No. 1331869-19-2

C<sub>26</sub>H<sub>22</sub>FNO<sub>3</sub> M.W. 415.47

RKDA-1251

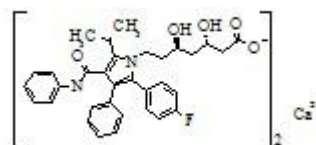


### Atorvastatin (3S,5R) Isomer Calcium Salt

CAS No. 887196-25-0

C<sub>66</sub>H<sub>68</sub>F<sub>2</sub>N<sub>4</sub>O<sub>10</sub> . Ca M.W. 1115.30 40.08

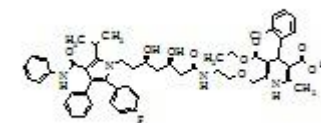
RKDA-1252



### Atorvastatin-Amlodipine Dimer

C<sub>53</sub>H<sub>58</sub>ClFN<sub>4</sub>O<sub>9</sub> M.W. 949.53

RKDA-1253





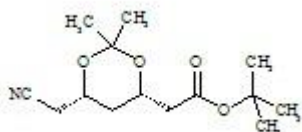


## Atorvastatin Impurity 18

CAS No. 196085-85-5

C<sub>14</sub>H<sub>23</sub>NO<sub>4</sub> M.W. 269.34

**RKDA-1254**

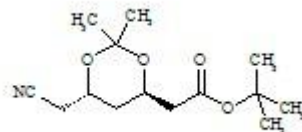


## Atorvastatin Impurity 19

CAS No. 196085-84-4

C<sub>14</sub>H<sub>23</sub>NO<sub>4</sub> M.W. 269.34

**RKDA-1255**

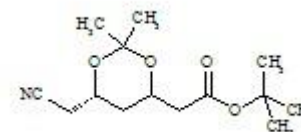


## Atorvastatin Impurity 20

CAS No. 1016893-70-1

C<sub>14</sub>H<sub>23</sub>NO<sub>4</sub> M.W. 269.34

**RKDA-1256**

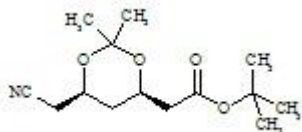


## Atorvastatin Impurity 21

CAS No. 1357600-18-0

C<sub>14</sub>H<sub>23</sub>NO<sub>4</sub> M.W. 269.34

**RKDA-1257**

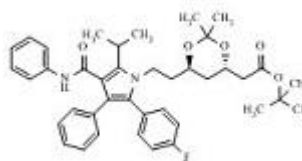


## 10-trans-Atorvastatin Acetonide tert-Butyl Ester

CAS No. 1105067-90-0

C<sub>40</sub>H<sub>47</sub>FN<sub>2</sub>O<sub>5</sub> M.W. 654.82

**RKDA-1258**

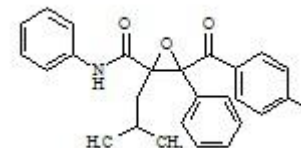


## Atorvastatin Oxirane Impurity

CAS No. 1246818-88-1

C<sub>26</sub>H<sub>24</sub>FNO<sub>3</sub> M.W. 417.48

**RKDA-1259**

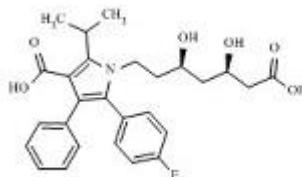


## Atorvastatin Impurity 22

CAS No. 1821498-27-4

C<sub>27</sub>H<sub>30</sub>FNO<sub>6</sub> M.W. 483.54

**RKDA-1260**

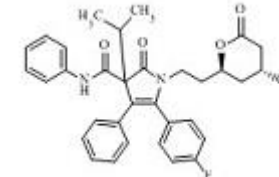


## Atorvastatin Pyrrolidone Impurity

CAS No. 906552-19-0

C<sub>33</sub>H<sub>33</sub>FN<sub>2</sub>O<sub>5</sub> M.W. 556.64

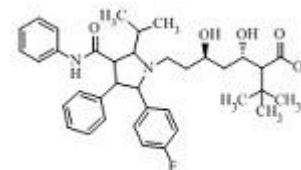
**RKDA-1261**



## Atorvastatin Impurity 26

C<sub>37</sub>H<sub>47</sub>FN<sub>2</sub>O<sub>5</sub> M.W. 618.79

**RKDA-1265**

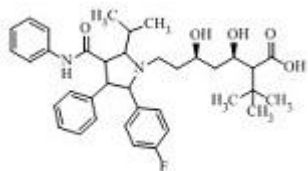




## Atorvastatin Impurity 27

C37H47FN2O5 M.W. 618.79

**RKDA-1266**

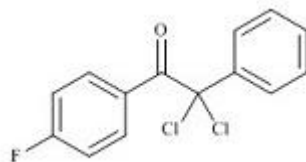


## Atorvastatin Impurity 28

CAS No. 1403667-07-1

C14H9Cl2FO M.W. 283.12

**RKDA-1267**

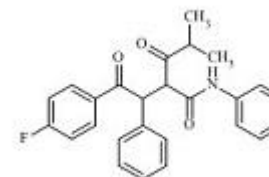


## Atorvastatin Impurity 29

CAS No. 125971-96-2

C26H24FNO3 M.W. 417.48

**RKDA-1268**

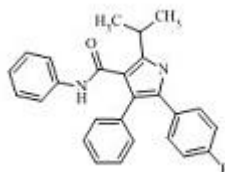


## Atorvastatin Impurity 30

CAS No. 666714-64-3

C26H23FN2O M.W. 398.48

**RKDA-1269**

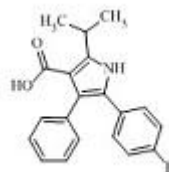


## Atorvastatin Impurity 31

CAS No. 1173184-78-5

C20H18FNO2 M.W. 323.37

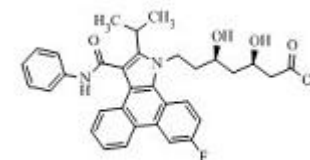
**RKDA-1270**



## Atorvastatin Impurity 32

C33H33FN2O5 M.W. 556.63

**RKDA-1271**

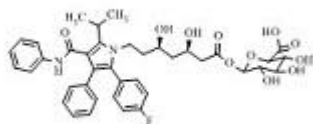


## Atorvastatin Acyl-beta-D-glucuronide

CAS No. 463962-58-5

C39H43FN2O11 M.W. 734.77

**RKDA-1272**

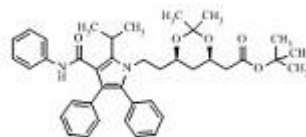


## Atorvastatin Impurity 39

CAS No. 1105067-91-1

C40H48N2O5 M.W. 636.83

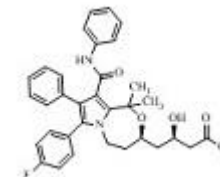
**RKDA-1273**



## Atorvastatin Impurity 34

C33H33FN2O5 M.W. 556.64

**RKDA-1274**



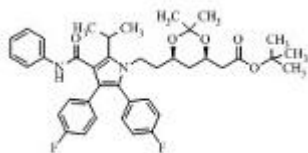


## Difluoro Atorvastatin Acetonide *tert*-Butyl Ester

CAS No. 693793-87-2

C<sub>40</sub>H<sub>46</sub>F<sub>2</sub>N<sub>2</sub>O<sub>5</sub> M.W. 672.81

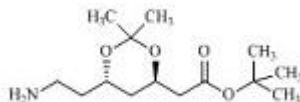
RKDA-1275



## Atorvastatin Impurity 35

C<sub>14</sub>H<sub>27</sub>NO<sub>4</sub> M.W. 273.37

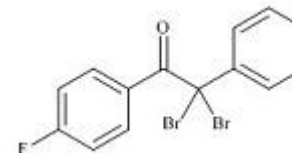
RKDA-1276



## Atorvastatin Impurity 36

C<sub>14</sub>H<sub>9</sub>Br<sub>2</sub>FO M.W. 372.03

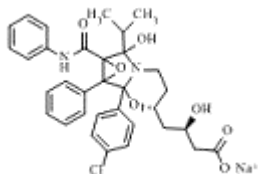
RKDA-1277



## Atorvastatin Cyclic Sodium Salt (Chlorophenyl) Impurity

C<sub>33</sub>H<sub>34</sub>ClN<sub>2</sub>O<sub>7</sub>. Na M.W. 606.09 22.99

RKDA-1278

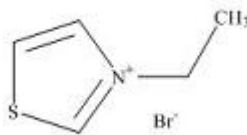


## Atorvastatin Impurity 37

CAS No. 63423-96-1

C<sub>5</sub>H<sub>8</sub>NS. Br M.W. 114.19 79.90

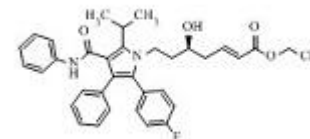
RKDA-1279



## Atorvastatin Impurity 38

C<sub>35</sub>H<sub>37</sub>FN<sub>2</sub>O<sub>4</sub> M.W. 568.69

RKDA-1280



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