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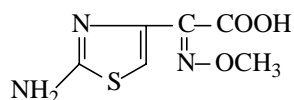
Email: info@frpservices.com

Intermediates

1) ATZ

(Z)-2-(2-Aminothiazole-4-yl)-2-Methoxyimino Acetic Acid

CAS# 65872-41-5

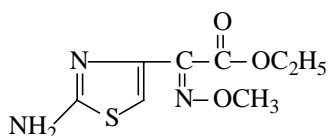


The side chain of Cefotaxime, Ceftriaxone, Cefepime, Ceftiofur, Ceferam

2) ATE

Ethyl (Z)-2-(2-Aminothiazole-4-yl)-2-Methoxyimino Acetate

CAS# 64485-88-7

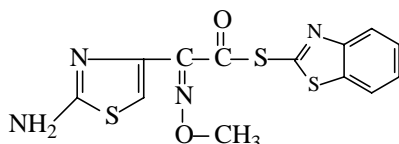


The side chain of Ceftriaxone and Cefotaxime

3) MAEM

2-Mercaptobenzothiazolyl (Z)-2-(2-Aminothiazole-4-yl)-2-Methoxyimino Acetate

CAS# 80756-85-0

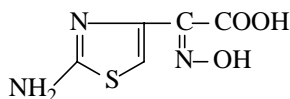


The side chain of Cefotaxime and Ceftriaxone

4) ATHIAA

(Z)-2-(2-Aminothiazole-4-yl)-2-Hydroxyimino Acetic Acid

CAS# 66338-96-3

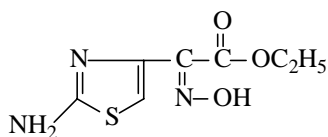


The side chain of Cefdinir

5) ATH

Ethyl (Z)-2-(2-Aminothiazole-4-yl)-2-Hydroxyimino Acetate

CAS# 64485-82-1

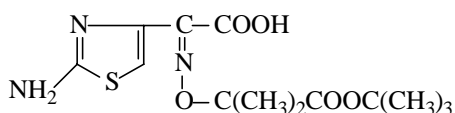


The side chain of Cefdinir, Cefixime and Ceftazidime

6) ATBA

(Z)-2-(2-Aminothiazole-4-yl)-2-(Tert-Butoxycarbonyl)-Isopropoxyimino Acetic Acid

CAS# 86299-46-9



The side chain of Cefotaxime, Ceftriaxone, Cefepime, Ceftiofur, Ceferam



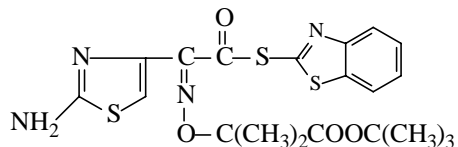
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7) TAEM

2-Mercaptobenzothiazolyl (Z)-2-(2-Aminothiazole-4-yl)-2-[(Tert-Butoxycarbonyl)-Isopropoxyimino] Acetate

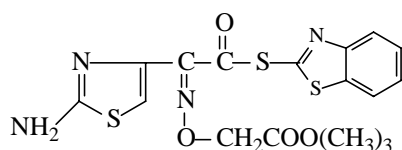


CAS# 89604-92-2

The side chain of Ceftazidime and Aztreonam

8) MBT

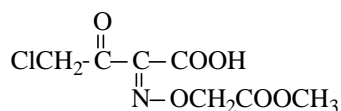
2-Mercaptobenzothiazolyl (Z)-2-(2-Aminothiazole-4-yl)-2-(Tert-Butoxycarbonyl)-Methoxyimino Acetate



The side chain of Cefixime

9) CMOBA

4-Chloro-(Z)-2-Methoxycarbonyl-Methoxyimino-3-Oxobutanoic Acid

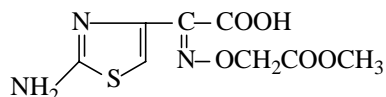


CAS# 84080-70-6

The side chain of Cefixime

10) AMMA

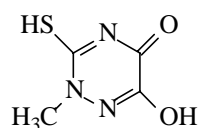
(Z)-2-(2-Aminothiazole-4-yl)-2-Methoxycarbonyl- Methoxyimino Acetic Acid



The side chain of Cefixime

11) TMHTO

6-Hydroxy-3-Mercapto-2-Methyl-5-Oxo-1,2,4-Triazine

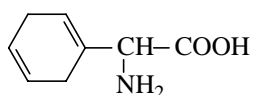


CAS# 58909-39-0

The side chain of Ceftriaxone

12) DHG

D- -Dihydro Phenyl Glycine



CAS# 26774-88-9

The side chain of Cephadrine and Cefroxadine



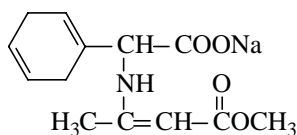
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13) **DHGM-Na**

D- -Dihydro Phenyl Glycine Dane Salt (Me, Na)

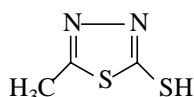


CAS# 26774-89-0

The side chain of Cfradine and Cefroxadine

14) **MMTD**

2-Methyl-5-Mercapto-1,3,4-Thiadiazole

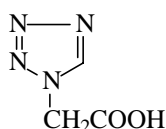


CAS# 29490-19-5

The side chain of Cefazolin and Cefamandole

15) **TAA**

1,2,3,4-Tetrazolyl-1-Acetic Acid

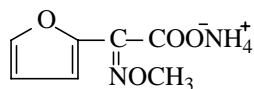


CAS# 21732-17-2

The side chain of Cefazolin and Ceftezole

16) **SMIA**

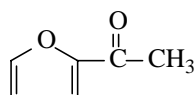
Sin-Methoxyimino Furanyl Acetic Acid Ammonium Salt



CAS# 97148-89-5

The side chain of Cefuroxime Axetil

17) **2-Acetyl Furan**



CAS# 1192-62-7

The side chain of Cefuroxime Axetil

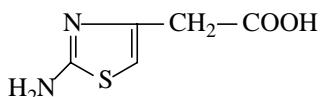
18) **Methoxyamine HCl**

CAS# 593-56-6

The side chain of Cefuroxime Axetil

19) **ATAA**

2-(2-Aminothiazole-4-yl) Acetic Acid

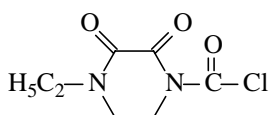


CAS# 29676-71-9

The side chain of Cefotiam

20) **DEPC**

N-Ethyl-(2,3-Dioxo-N-Piperzinil)Carbonyl Chloride



CAS#59703-00-3

The side chain of Piperaciline, Cefoperazone



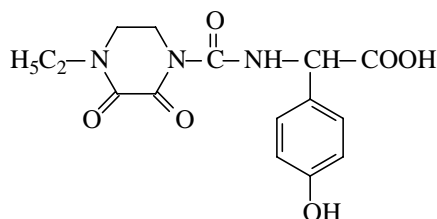
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21) **HO-DEPC**

[[4-Ethyl-2,3-Dioxo-1-Piperazinyl]Carbonyl]Amino-4-Hydroxy-Benzene Acetic Acid

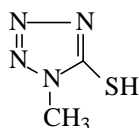


CAS#79868-75-0

The side chain of Cefoperazone

22) **MMTZ**

5-Mercapto-1-Methyl-1,2,3,4-Tetrazole

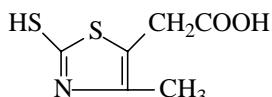


CAS#13183-79-4

The side chain of Cefoperazone, Cefteram, Cefamandole and Cefotetan

23) **MMTA**

2-(2-Mercapto-4-Methyl-1,3-Thiazole-5-yl) Acetic Acid

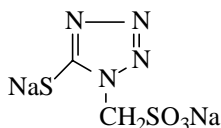


CAS# 34272-64-5

The side chain of Cefodizim

24) **SMT**

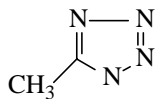
1-Sulfonylmethyl-5-Mercaptotetrazole Disodium Salt



CAS# 66242-82-8

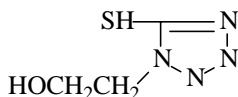
The side chain of Cefonicid

25) **5-Methyl-1H-Tetrazole**



CAS# 4076-36-2

26) **1-Hydroxyethyl-5-Mercapto-1H-Tetrazolyl**



CAS# 56610-81-2

27) **D-(-)-Phenylglycine**

CAS# 875-74-1

The side chain of Cefaclor and Ampicillin

28) **L-(+)-Phenylglycine**

CAS# 2935-35-5

The side chain of Cefodizim

29) **D-(-)-Phenylglycine Dane Salt (Et, K)**

CAS# 961-69-3

The side chain of Ampicillin, Cephalexin and Cefaclor

30) **D-(-)-α-P-Hydroxy Phenylglycine**

CAS# 22818-40-2



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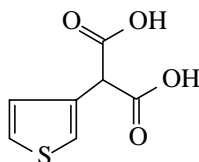
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-
- 31) D-(-)- α -P-Hydroxy Phenylglycine Dane Salt CAS# 69416-61-1
(Me, K)

The side chain of Amoxicillin and Cefadroxil

- 32) 3-Thiophene Malonic Acid



CAS# 21080-92-2

The intermediate of Ticarcillin

- 33) Ticarcillin acid CAS# 34787-01-4

The intermediate of Ticarcillin

- 34) 1H-1,2,3-Triazole

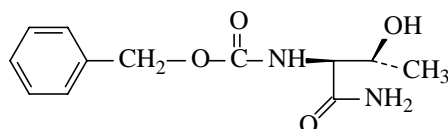


CAS# 288-36-8

The intermediate of Tazobactam

- 35) CBZTA

N-Benzyloxycarbonyl-L-Threoninamide



CAS# 49705-98-8

-
- 36) 1-Acetidinesulfonic acid, 3-Amino-2-Methyl-
4-oxo-(2s-trans)

The intermediate of Aztreonam

- 37) 7-AVCA

CAS# 79349-2-9

7-Amino-3-Vinyl-3-Cephem-4-Carboxylic Acid

The intermediate of Cefdinir, Cefixime

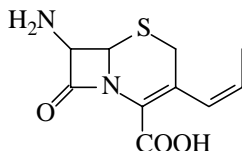
- 38) 3-OH

7-Phenylacetamido-3-Hydroxy-3-Cephem-4-Carboxylic acid Diphenyl methyl ester

The intermediate of Cefaclor

- 39) APRA

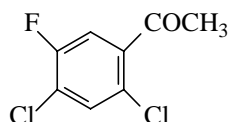
7-Amino-3-Propenylcephem-4-Carboxylic acid



The intermediate of Cefprozil

- 40) DCFA

2,4-Dichloro-5-Fluoro-Acetophenone



CAS# 704-10-9

The intermediate of Ciprofloxacin and Enrofloxacin



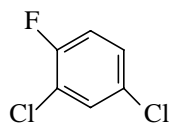
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41) DCFB

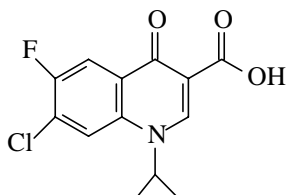
1,3-Dichloro-4-Fluoro-Benzene



CAS# 1435-48-9

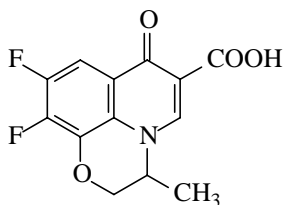
42) Q-ACID

7-Chloro-1-Cyclopropyl-6-Fluoro-4-Oxo-3-Quinoline Carboxylic Acid



The intermediate of Ciprofloxacin

43) Ofloxacin Carboxylic Acid

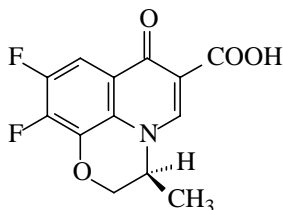


The intermediate of Ofloxacin

44) 1-Acetone-Oxo-3,4-DifluoroNitrobenzene

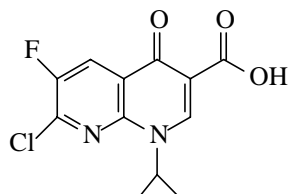
The intermediate of Ofloxacin

45) Levofloxacin Carboxylic Acid



The intermediate of Levofloxacin

46) 7-Chloro-1-Cyclopropyl-6-Fluoro-1,4-Dihydro-4-Oxo-1,8-Naphthyridine-3-Carboxylic Acid



The intermediate of the New-Quinolone antibiotics



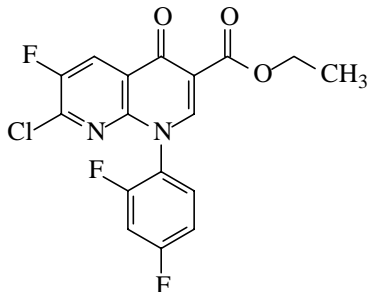
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47) CFND

7-Chloro-1-(2,4-Difluorophenyl)-6-Fluoro-1,4-Dihydro-4-Oxo-1,8-Naphthyridine-3-Carboxylic Acid Ethyl Ester



The Intermediate of Trovafloxacin Mesylate, Alatrofloxacin, Tosufloxacin.

48) p-Fluoro Nitrobenzene

49) 3-Chloro-4-fluoro Aniline

CAS# 367-21-5

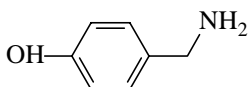
50) 2,4,5-Trifluoro-3-Methoxy-benzoic Acid

CAS# 112811-65-1

51) 2-Methyl Piperazine

CAS# 109-07-9

52) Tyramine

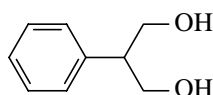


CAS# 51-76-2

The intermediate of Benzafibrate

53) PPD

2-Phenylpropane-1,3-diol



CAS# 570-95-2

The intermediate of Felbamate

54) Cefetamet Acid

CAS# 65052-63-3

55) Cefuroxime Acid

CAS# 55268-75-2

56) Ceftazidime Acid

CAS# 72558-82-8

57) Cefixime Acid

CAS# 79350-37-1

58) Cefotezoxime Acid

59) Cefotezoxime Sodium

60) CBZ-L-Valine

CAS# 1149-26-4

--Intermediate for Valaciclovir and Valsartan

61) CBZ-S-Phenyl-L-Cysteine

CAS# 159453-24-4

--Intermediate for Nelfinavir

62) (R)-(+)-1,2-Epoxypropane

CAS# 15448-47-2

--Intermediate for Tenofovir



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63)	(R)-(-)-1,2-Propanediol --Intermediate for Tenofovir	CAS# 4254-14-2
64)	(R)-(+)-Propylene carbonate --Intermediate for Tenofovir	CAS# 16606-55-6
65)	(S)-(+)-Epichlorohydrin	CAS# 67843-74-7
66)	(R)-Glycidyl butyrate --Intermediate for Linezolid	CAS# 60456-26-0
67)	(S)-Glycidyl tosylate	CAS# 26550-55-0
68)	(R)-(-)-1-Amino-2-propanol	CAS# 2799-16-8
69)	Di-p-toluoyl-L-tartaric acid	CAS# 32634-66-5
70)	(S)-(+)-1-Amino-2-propanol	CAS# 2799-17-9
71)	Di-p-toluoyl-D-tartaric acid	CAS# 32634-68-7
72)	OBPA; 10,10'-oxybisphenoxarsine	CAS# 58-36-6
73)	CHQ; 5-Chloro-8-Hydroxyquinoline	CAS# 130-16-5
74)	D-mandelic acid	CAS# 611-71-2