



Certificate of Analysis

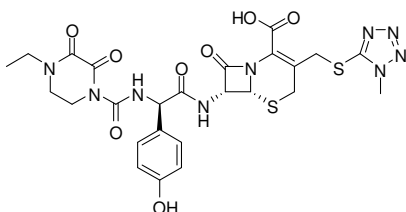
Axon Catalogue ID: 3123 **Batch Number:** 1

Product Name: Cefoperazone

Alternative Name(s): T-1551

IUPAC Name: (6R,7R)-7-((R)-2-(4-Ethyl-2,3-dioxopiperazine-1-carboxamido)-2-(4-hydroxyphenyl)acetamido)-3-((1-methyl-1H-tetrazol-5-ylthio)methyl)-8-oxo-5-thia-1-

Structure:



Amount:

CAS number(s): 62893-19-0

Molecular Formula: C₂₅H₂₇N₉O₈S₂ **Molecular Weight:** 645.67

Batch Molecular Formula: C₂₅H₂₇N₉O₈S₂·0.25H₂O **Batch Molecular Weight:** 650.17

Appearance: Off-white solid **Observed mp:** 201 - 203 °C

TLC (R_f): 0.35 nBuOH/AcOH/H₂O (3:1:1)

Chemical Purity: 98.9%

Optical Purity (ee): Optically pure

Optical Rotation (Det.): [α]_D = -34.7° with c = 0.5 in MeOH

¹H-NMR (300 MHz): Analytical data confirm chemical structure

Mass Spec: Analytical data confirm chemical structure

Microanalysis: Calculated: C 46.18, H 4.26, N 19.39; Found: C 46.02, H 4.20, N 19.17

Storage Conditions: Store at +4 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	0.0	0.0	
0.1N NaOH (aq)	0.0	0.0	Insoluble	
0.1N HCl (aq)			Not Tested	
DMSO	42.0	64.6		
EtOH			Not Tested	

Remarks:

QC Date: 24-9-2020

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to info@axonmedchem.com indicating Catalogue ID and Batch number.

Caution: Not fully tested. For research purposes only