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DATASHEET

Ceftriaxone disodium salt

Product overview

Name	Ceftriaxone disodium salt
Cat No	HB0176
Description	β -lactam antibiotic. Increases EAAT2 activity.
Biological action	Antibiotic
Purity	>98%

Biological Data

Biological description	β -lactam antibiotic. Increases EAAT2 expression and EAAT2 biochemical and functional activity. Potentially reduces glutamergic toxicity. Shows neuroprotective actions in neurodegenerative disease models and antinociceptive effects in neuropathic pain.
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (50 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	7-[[[(2Z)-2-(2-Amino-4-thiazolyl)-2-(methoxyimino)acetyl]amino]-8-oxo-3-[[[1,2,5,6-tetrahydro-2-methyl-5,6-dioxo-1,2,4-triazin-3-yl)thio]methyl]-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid disodium salt
Molecular Weight	598.54
Chemical structure	
Molecular Formula	C ₁₈ H ₁₆ N ₈ Na ₂ O ₇ S ₃
CAS Number	74578-69-1
PubChem identifier	9570985
SMILES	CN1C(=NC(=O)C(=N1)[O-])SCC2=C(N3[C@@H]([C@@H](C3=O)NC(=O)/C(=N\OC)/C4=CSC(=N4)N)SC2)C(=O)[O-].[Na+].[Na+]
InChiKey	YOBPSXOHCHDCMU-VKZZUTNHSA-L
MDL number	MFCD01750405
Appearance	White to off-white

References

Ceftriaxone mediated rescue of nigral oxidative damage and motor deficits in MPTP model of Parkinson's disease in rats.

Bisht R *et al* (2014) Neurotoxicology 44

PubMedID [25053526](#)

Ceftriaxone, a beta-lactam antibiotic, modulates apoptosis pathways and oxidative stress in a rat model of neuropathic pain.

Amin B *et al* (2014) Biomed Res Int 2014

PubMedID

[25028668](#)

Mechanism of ceftriaxone induction of excitatory amino acid transporter-2 expression and glutamate uptake in primary human astrocytes.

Lee SG *et al* (2008) J Biol Chem 283(19)

PubMedID

[18326497](#)
