

alpha-Conotoxin Iml (trifluoroacetate salt) Biochemical

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CATALOG #
AAA227022

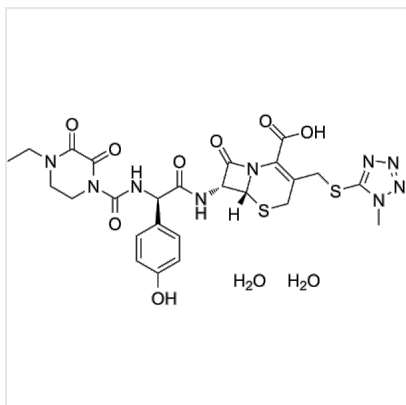
PRODUCT SYNONYMS

alpha-Conotoxin Iml (trifluoroacetate salt); alpha-Conotoxin Iml (trifluoroacetate salt) biochemical

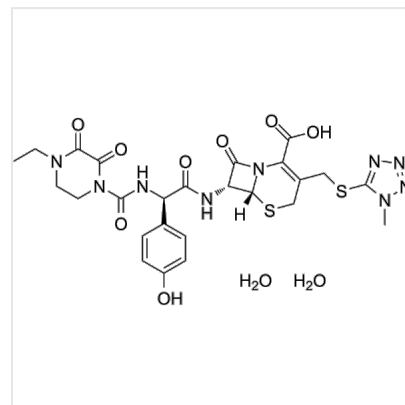
PRODUCT SPECIFICATIONS

Purity/Purification	98%
Solubility	H ₂ O: Soluble <1mg/ml refers to the product slightly soluble or insoluble
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
Cefoperazone dihydrate, CAS 113826-44-1



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ADDITIONAL INFORMATION

Related Product Information for alpha-Conotoxin Iml (trifluoroacetate salt) biochemical

alpha-Conotoxin Iml is a conotoxin that has been found in *C. imperialis* and has receptor antagonist and anticancer activities.¹ It is a peptide antagonist of homomeric alpha7 nicotinic acetylcholine receptors (nAChRs; IC₅₀ = 220 nM). alpha-Conotoxin Iml is selective for alpha7 nAChRs over alpha2beta2, alpha3beta2, alpha4beta2, alpha2beta4, alpha3beta4, alpha4beta4, and alpha1beta1gamma delta subunit-containing nAChRs at 5 uM but does not inhibit homomeric alpha9 nAChRs (IC₅₀ = 1,800 nM). Administration of paclitaxel in micelles containing alpha-conotoxin Iml decreases tumor growth in an MCF-7 mouse xenograft model.² Intracerebroventricular, but not intraperitoneal, administration of alpha-conotoxin Iml (20 nmol/animal) induces seizures in rats.³

References

1. N Matsubara, et al. In vitro antibacterial activity of cefoperazone (T-1551), a new semisynthetic cephalosporin. *Antimicrob Agents Chemother.* 1979 Dec;16(6):731-5.
2. Pedro H. Di Rocco, et al. Aerosol treatment with cefoperazone or gentamicin protects granulocytopenic mice from acute *Pseudomonas aeruginosa* pneumonia. *European Journal of Pharmaceutical Sciences* Volume 1, Issue 6, June 1994, Pages 285-289.

NCBI AND UNIPROT INFORMATION

Molecular Weight	645.67
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/biochemical/alpha-conotoxin-imi-trifluoroacetate-salt/227022>