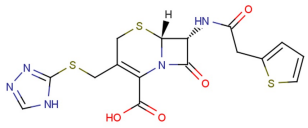
Data Sheet (Cat.No.T10751)

TargetMol
A DRUG SCREENING EXPERT

Cefetrizole

Chemical Properties



CAS No.:	65307-12-2
Formula:	C16H15N5O4S3
Molecular Weight:	437.52
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Ceftezole is an α-Glucosidase inhibitor (IC50: 2.1 μM; Ki: 0.578 μM).
Targets(IC_{50})	α-Glucosidase: (ki)0.578 μM
In vivo	In vivo streptozotocin-induced mouse model, blood glucose levels are decreased by 30% 20 min after Ceftezole treatment (10 mg/kg/day). Expression levels of GSK-3, peroxisome proliferator-activated receptor-γ, and uncoupling protein-3 mRNA are also slightly decreased compared to controls following Ceftezole treatment.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.286 mL	11.428 mL	22.856 mL
5 mM	0.457 mL	2.286 mL	4.571 mL
10 mM	0.229 mL	1.143 mL	2.286 mL
50 mM	0.046 mL	0.229 mL	0.457 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Lee DS, et al. Ceftezole, a cephem antibiotic, is an alpha-glucosidase inhibitor with in vivo anti-diabetic activity. Int J Mol Med. 2007 Sep;20(3):379-83.

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