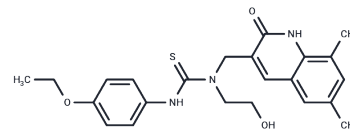


β -Glucuronidase-IN-1

Chemical Properties

CAS No. :	484006-66-8
Formula:	C ₂₃ H ₂₇ N ₃ O ₃ S
Molecular Weight:	425.54
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	β -Glucuronidase-IN-1 is an E. coli β -glucuronidase (β -glucuronidase) inhibitor with a potent, selective, non-competitive, and orally active IC ₅₀ and K _i value of 283 nM and 164 nM, respectively, against E. coli β -glucuronidase.
Targets(IC ₅₀)	Antibacterial
In vitro	β -Glucuronidase-IN-1 (0.01-100 μ M) inhibits E. coli β -glucuronidase activity in a dose-dependent manner(IC ₅₀ and K _i of 283 nM and 164 nM, respectively).[1] β -Glucuronidase-IN-1 (100 μ M; 24-72 hours) maintains potent efficacy in living bacterial cells with EC ₅₀ of 17.7 nM.[1]
In vivo	β -Glucuronidase-IN-1 (10 μ g; oral gavage; twice per day; 11 days) shields the gastrointestinal epithelium of mice from damage induced by CPT-11, preserving the glandular structure in the treated intestinal tissues.[1]

Solubility Information

Solubility	DMSO: 30 mg/mL (70.5 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.350 mL	11.7498 mL	23.4996 mL
5 mM	0.470 mL	2.350 mL	4.6999 mL
10 mM	0.235 mL	1.175 mL	2.350 mL
50 mM	0.047 mL	0.235 mL	0.470 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Wallace BD, et al. Alleviating cancer drug toxicity by inhibiting a bacterial enzyme.Science. 2010 Nov 5;330(6005):831-5.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481