Product Data Sheet

Product Name: Erythromycin A enol ether
Cat. No.: GC12263

Chemical Properties

Cas. No.	33396-29-1		
Chemical Name	8,9-didehydro-9-deoxo-6-deoxy-6,9-epoxy-erythromycin		
SMILES	O=C1[C@@H]([C@H]([C@@H]([C@]([H])([C@]2(CC(C)=C([C@@H]([C@H]([C@@](C)([C@H](O1)CC)O)O)C)O2)C)O[C@]3([C@@H]([C@H](C[C@H](O3)C)N(C)C)O)[H])C)O[C@@]4(O[C@H]([C@@H]([C@@](C)(C4)OC)O)C)[H])C		
Formula	$C_{37}H_{65}NO_{12}$	M.Wt	715.9
Solubility	≤30mg/ml in DMSO;15mg/ml in dimethyl formamide	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Erythromycin A enol ether		

Background

Erythromycin A enol ether, also known as 8,9-anhydroerythromycin A 6,9 hemiketal, is a kind of catabolite of erythromycin A without its antibiotic properties.

Erythromycin A enol ether functions as a β-turn mimic of the peptide hormone motilin which leads to duodenal contractions. Erythromycin A enol ether is also the agent of gastrointestinal (GI) distress [1].

Motilin is a kind of polypeptide hormone with 22-amino acid belonging to the motilin family. Motilin could increase the migrating myoelectric complex of gastrointestinal motility, and stimulate the pepsin production. Motilin could also improve peristalsis in the small intestine and empty the gut for the next meal. Besides, motilin could facilitate the release of somatostatin and pancreatic polypeptide.

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In Vitro: No data available.

In Vivo: No data available.

Clinical trial: No data available.

Reference:
[1] Steinmetz W E, Shapiro B L, Roberts J J, et al. The structure of erythromycin enol ether as a model for its activity as a motilide.[J]. Journal of Medicinal Chemistry, 2002, 45(22): 4899-4902.

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