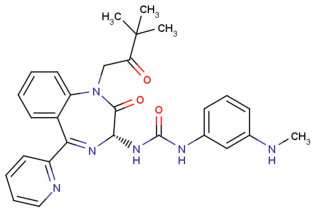
Data Sheet (Cat.No.T16906)

TargetMol
A DRUG SCREENING EXPERT

Sograzepide

Chemical Properties



CAS No.:	155488-25-8
Formula:	C28H30N6O3
Molecular Weight:	498.58
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Sograzepide is an effective and highly selective Gastrin/CCK-B antagonist (IC50: 0.1 nM), has an inhibitory effect on Gastrin/CCK-A activity (IC50: 502 nM). Sograzepide replaces the specific binding of [125I]CCK-8 to the rat brain, cloned canine, and cloned human Gastrin/CCK-B receptors (Ki: 0.068, 0.62 and 0.19 nM, respectively).
Targets(IC_{50})	Gastrin/CCK-B: 0.1 nM Gastrin/CCK-A: 501 nM
In vivo	Sograzepide (0.1 μmol/kg; intravenous injection) has an inhibition effect on pentagastrin-induced gastric acid secretion in anesthetized rats (ED50: 87 nmol/kg). Sograzepide (intravenous injection; 10 μM/kg) inhibits pentagastrin-induced acid secretion (ED50: 0.0086 μM/kg). Sograzepide (intravenous injection; p.o.) in Heidenhain pouch dogs, inhibits pentagastrin-stimulated gastric acid secretion in a dose-dependent manner (ED50: 0.018 and 0.020 μM/kg, respectively) [1][2].

Solubility Information

Solubility	DMSO: 100 mg/mL (200.57 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.006 mL	10.028 mL	20.057 mL
5 mM	0.401 mL	2.006 mL	4.011 mL
10 mM	0.201 mL	1.003 mL	2.006 mL
50 mM	0.04 mL	0.201 mL	0.401 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. Boyce M, et al. Effect of netazepide, a gastrin/CCK2 receptor antagonist, on gastric acid secretion and rabeprazole-induced hypergastrinaemia in healthy subjects. Br J Clin Pharmacol. 2015 May;79(5):744-55.
2. Takinami Y, et al. YF476 is a new potent and selective gastrin/cholecystokinin-B receptor antagonist in vitro and in vivo.Aliment Pharmacol Ther. 1997 Feb;11(1):113-20.

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