## Sograzepide

Cat. No.:	HY-14850		
CAS No.:	155488-25-8	8	
Molecular Formula:	$C_{28}H_{30}N_6O_3$		
Molecular Weight:	498.58		
Target:	Cholecystokinin Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

## SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 100 mg/mL (200.57 mM) * "≥" means soluble, but saturation unknown.						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	2.0057 mL	10.0285 mL	20.0570 mL		
		5 mM	0.4011 mL	2.0057 mL	4.0114 mL		
	10 mM	0.2006 mL	1.0028 mL	2.0057 mL			
	Please refer to the so	lubility information to select the app	propriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.17 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.17 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.17 mM); Clear solution						

BIOLOGICAL ACTIVITY					
Description	Sograzepide (Netazepide; YF 476; YM-220) is an extremely potent , highly selective and orally active Gastrin/CCK-B antagonist with an IC <sub>50</sub> value of 0.1 nM, has inhibitory effect on Gastrin/CCK-A activity with an IC <sub>50</sub> of 502 nM <sup>[1]</sup> . Sograzepide (Netazepide; YF 476; YM-220) replaces the specific binding of [1251]CCK-8 to the rat brain, cloned canine and cloned human Gastrin/CCK-B receptors, with K <sub>i</sub> values of 0.068, 0.62 and 0.19 nM, respectively <sup>[2]</sup> .				
IC <sub>50</sub> & Target	IC50: 0.1 nM (Gastrin/CCK-B); 501 nM (Gastrin/CCK-A) <sup>[1]</sup>				

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In ۱	/ivo
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Sograzepide (Netazepide; YF 476; YM-220) (0.1 μmol/kg; intravenous injection) has an inhibition effect on pentagastrininduced gastric acid secretion in anethsetized rats with an ED<sub>50</sub> of 87 nmol/kg<sup>[1]</sup>.

Sograzepide (Netazepide; YF 476; YM-220) (intravenous injection; 10  $\mu$ M/kg) inhibits pentagastrin-induced acid secretion with an ED<sub>50</sub> value of 0.0086  $\mu$ M/kg, but does not affect histamine- and bethanechol-induced acid secretion<sup>[2]</sup>. Sograzepide (Netazepide; YF 476; YM-220) (intravenous injection; oral administration) in Heidenhain pouch dogs, inhibits pentagastrin-stimulated gastric acid secretion in a dose-dependent manner with ED<sub>50</sub> values of 0.018 and 0.020  $\mu$ M/kg, respectively <sup>[2]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

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