Loxiglumide

Cat. No.:	HY-B2154		
CAS No.:	107097-80-3		
Molecular Formula:	$C_{21}H_{30}Cl_2N_2O_5$		
Molecular Weight:	461.38		
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

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SOLVENT & SOLUBILITY

0,	DMSO : ≥ 100 mg/mL (216.74 mM) * "≥" means soluble, but saturation unknown.					
		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	1 mM	2.1674 mL	10.8371 mL	21.6741 mL		
		5 mM	0.4335 mL	2.1674 mL	4.3348 mL	
		10 mM	0.2167 mL	1.0837 mL	2.1674 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	Solubility: ≥ 2.5 m 2. Add each solvent o	one by one: 10% DMSO >> 40% PEC g/mL (5.42 mM); Clear solution one by one: 10% DMSO >> 90% cor g/mL (5.42 mM); Clear solution		0 >> 45% saline		

BIOLOGICAL ACTIV	
Description	Loxiglumide is a cholecystokinin (CCK-1) receptor antagonist.
IC ₅₀ & Target	CCKAR
In Vivo	The effects of pancreatic rest by oral administration of CCK-1 receptor antagonist Loxiglumide and pancreas stimulation are investigated via endogenous CCK release induced by po protease inhibitor camostat on the recovery of pancreatic secretory function, and biochemical and histological changes of the pancreas after acute hemorrhagic pancreatitis. Oral administration of CCK-1 receptor antagonist Loxiglumide with a dose of 50 mg/kg body weight inhibits pancreatic exocrine secretion for more than 12 h. Thus, every 12-h administration of Loxiglumide might have completely blocks the effect of

Product Data Sheet

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endogenously released CCK on the pancreas (pancreatic rest) $^{\left[1 ight]}$.

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

ΡΡΟΤΟΓΟΙ	
PROTOCOL Animal Administration ^[1]	Rats ^[1] At 24 h after induction of acute hemorrhagic pancreatitis, rats are divided into four different treatment groups: standard rat chow (AP-C); standard rat chow with pancreatic rest (AP-R); standard rat chow with pancreatic stimulation (AP-S); and
	standard rat chow with pancreatic rest, followed by pancreatic stimulation (AP-R/S). Rats in the AP-C group receive 2 mL/kg body weight saline orally (po) via an orogastric tube twice daily (09:00 and 21:00 h) for 10 d; the AP-R group receive 50 mg/kg body weight of CCK-1 receptor antagonist Loxiglumide dissolved in 2 mL distilled water po twice daily for 10 d; the AP-S group receive 25 mg/kg body weight protease inhibitor Camostat, which is known to stimulate endogenous CCK release, dissolved in 2 mL distilled water po twice daily for 10 d; the AP-S group receive 50 mg/kg body weight of 2 mL distilled water po twice daily for 10 d; and the AP-R/S group receive 50 mg/kg body weight Loxiglumide
	twice daily for the first 5 d followed by 25 mg/kg body weight camostat twice daily for the next 5 d. Rats are fed ad libitum. On day 12 at 24 h after the last treatment and overnight fasting, pancreatic exocrine function and histological examination of the pancreas are performed. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

• Oxid Med Cell Longev. 2022 Jun 20;2022:5905374.

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REFERENCES

[1]. Jia D, et al. Effect of endogenous cholecystokinin on the course of acute pancreatitis in rats. World J Gastroenterol. 2015 Jul 7;21(25):7742-53.

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

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