Dexloxiglumide

Cat. No.: HY-128878

CAS No.: 119817-90-2

Molecular Formula: $C_{21}H_{30}Cl_2N_2O_5$

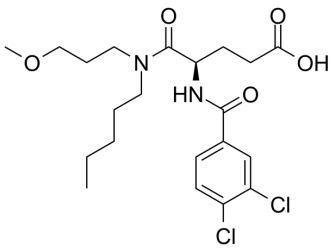
Molecular Weight: 461.38

Target: Cholecystokinin Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (108.37 mM; Need ultrasonic)

Preparing Stock Solutions	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

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.5 mg/mL (5.42 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (5.42 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.42 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Dexloxiglumide is a selective cholecystokinin type A (CCKA) receptor antagonist[1]. Dexloxiglumide, the active enantiomer of Loxiglumide, inhibits smooth muscle cell contractions induced by cholecystokinin-octapeptide (CCK-8)[2].

REFERENCES

[1]. Scarpignato C, et al. Effect of dexloxiglumide and spiroglumide, two new CCK-receptor antagonists, on gastric emptying and secretion in the rat: evaluation of their

receptor selectivity in vivo. Aliment Pharmacol Ther. 1996 Jun;10(3):411-9.

[2]. Maselli MA, et al. CCK1 receptor antagonist, dexloxiglumide: effects on human isolated gallbladder. Potential clinical applications. Minerva Gastroenterol Dietol. 2003 Sep;49(3):211-6.

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