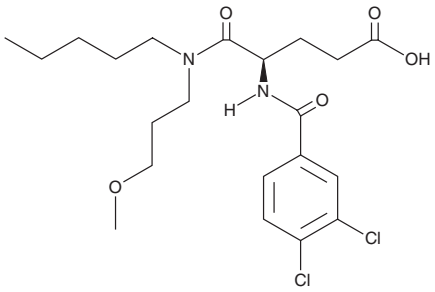
PRODUCT INFORMATION

Dexloxiglumide

Item No. 34759

CAS Registry No.:	119817-90-2
Formal Name:	(4R)-4-[(3,4-dichlorobenzoyl)amino]-5-[(3-methoxypropyl)pentylamino]-5-oxo-pentanoic acid
MF:	$C_{21}H_{30}Cl_2N_2O_5$
FW:	461.4
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Dexloxiglumide is supplied as a solid. A stock solution may be made by dissolving the dexloxiglumide in the solvent of choice, which should be purged with an inert gas. Dexloxiglumide is soluble in the organic solvent DMSO (sonicated) at a concentration of approximately 50 mg/ml.

Description

Dexloxiglumide is a cholecystokinin (CCK) receptor antagonist and is the single (R) isomer of loxiglumide (Item No. 25534).[1,2] It selectively binds to the CCK_1 receptor over CCK_2 in CHO cells expressing the rat receptors (K_is = 0.0234 and 5.88 µM, respectively).[1] Dexloxiglumide (20 µmol/kg) inhibits guinea pig gallbladder contractions induced by the CCK agonist CCK octapeptide (sulfated) (CCK-8S; Item No. 23371). It reduces CCK-8-induced gastric emptying in rats (ID_{50} = 1.14 mg/kg).[2]

References

1. Morton, M.F., Barrett, T.D., Yan, W., *et al.* 3-[5-(3,4-Dichloro-phenyl)-1-(4-methoxy-phenyl)-1*H*-pyrazol-3-yl]-2-*m*-tolyl-propionate (JNJ-17156516), a novel, potent, and selective cholecystokinin 1 receptor antagonist: In vitro and in vivo pharmacological comparison with dexloxiglumide. *J. Pharmacol. Exp. Ther.* **323(2)**, 562-569 (2007).
2. Scarpignato, C., Kisfalvi, I., D'Amato, M., *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.* **10(3)**, 411-419 (1996).

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