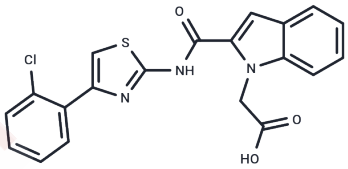
# Data Sheet (Cat.No.T15759)

TargetMol

## Lintitript

### Chemical Properties



CAS No. : 136381-85-6

Formula: C20H14ClN3O3S

Molecular Weight: 411.86

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

### Biological Description

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|---|---|
| Description | Lintitript (SR 27897) is a selective CCK1 antagonist with an EC50 of 6 nM for CCK1 and 200 nM for CCK2, and a Ki value of 0.2 nM for CCK1. |
| Targets(IC50) | Cholecystokinin Receptor |
| In vitro | Lintitript inhibited the CCK 2 site in guinea pig cortex with an IC2 of 479 nM. lintitript (0.5 nM) increased the dissociation constant of CCK on CCKA receptors with Kds between 1.8 and 7.2 nM without altering the maximum number of receptors. lintitript antagonized CCK-stimulated isolated rat pancreatic follicles in (amylase release and CCK-induced gallbladder contraction in guinea pigs with pA2s of 7.50 and 9.57). lintitript inhibited the binding of [125I]CCK to the rat pancreatic CCK1 receptor site with IC50 of 0.58 nM in a concentration-dependent manner[1]. |
| In vivo | Lintitript (1 mg/kg, i.v.) completely reversed CCK-induced amylase secretion. lintitript inhibited CCK-induced gastric and gallbladder emptying in mice with ED50s of 3 μg/kg and 72 μg/kg. lintitript (p.o.) was active in the gallbladder emptying protocol of egg yolk-induced endogenous CCK release, with an ED50 of 27 μg/kg [1]. |

### Solubility Information

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|---|---|
| Solubility | DMSO: 90 mg/mL (218.52 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.428 mL | 12.140 mL | 24.2801 mL |
| 5 mM | 0.4856 mL | 2.428 mL | 4.856 mL |
| 10 mM | 0.2428 mL | 1.214 mL | 2.428 mL |
| 50 mM | 0.0486 mL | 0.2428 mL | 0.4856 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Gully D, et al. Peripheral biological activity of SR 27897: a new potent non-peptide antagonist of CCKA receptors. Eur J Pharmacol. 1993 Feb 23;232(1):13-9.
Gouldson P, et al. Contrasting roles of leu(356) in the human CCK(1) receptor for antagonist SR 27897 and agonist SR 146131 binding. Eur J Pharmacol. 1999 Nov 3;383(3):339-46.
Cano V, et al. Regulation of leptin distribution between plasma and cerebrospinal fluid by cholecystokinin receptors. Br J Pharmacol. 2003 Oct;140(4):647-52.