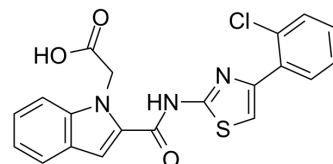


## Lintitript

<b>Cat. No.:</b>	HY-101764		
<b>CAS No.:</b>	136381-85-6		
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>14</sub> ClN <sub>3</sub> O <sub>3</sub> S		
<b>Molecular Weight:</b>	411.86		
<b>Target:</b>	Cholecystokinin Receptor		
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	Lintitript (SR 27897) is a highly potent, selective, orally active, competitive and non-peptide cholecystokinin (CCK1) receptor antagonist with an EC <sub>50</sub> of 6 nM and a K <sub>i</sub> of 0.2 nM. Lintitript displays > 33-fold selectivity more selective for CCK1 than CCK2 receptors (EC <sub>50</sub> value of 200 nM). Lintitript increases plasma concentration of leptin and food intake as well as plasma concentration of insulin <sup>[1][2][3]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	EC <sub>50</sub> : 6 nM (cholecystokinin (CCK1) receptor) <sup>[2]</sup> ; K <sub>i</sub> : 0.2 nM (cholecystokinin (CCK1) receptor) <sup>[1]</sup>
<b>In Vitro</b>	In vitro, Lintitript (SR 27897) is a competitive antagonist of cholecystokinin (CCK)-stimulated amylase release in isolated rat pancreatic acini (pA <sub>2</sub> = 7.50) and of CCK-induced guinea pig gall bladder contractions (pA <sub>2</sub> = 9.57) <sup>[1]</sup> . Lintitript produces concentration dependent inhibition of [ <sup>125</sup> I]CCK binding to CCK1 receptor sites in the rat pancreas (IC <sub>50</sub> value of 0.58 nM) and also to CCK 2 sites in the guinea pig cortex (IC <sub>2</sub> value of 479 nM). Lintitript inhibits [ <sup>125</sup> I]gastrin binding to gastrin receptors. Lintitript (0.5 nM) increases the dissociation constant of CCK for the CCK A receptor (K <sub>d</sub> = 1.8 to 7.2 nM) without modifying the maximum number of receptors (B <sub>max</sub> = 1800 to 1770 fmol/mg) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Lintitript (SR 27897; 1 mg/kg, i.v.) completely reverses the CCK-induced amylase secretion. Lintitript also inhibits CCK-induced gastric and gallbladder emptying in mice (ED <sub>50</sub> s = 3 and 72 µg/kg, respectively). Lintitript is also very active (ED <sub>50</sub> = 27 µg/kg p.o.) in the gall bladder emptying protocol with egg yolk as an inducer of endogenous CCK release <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. 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.
- [2]. 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.
- [3]. 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.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA