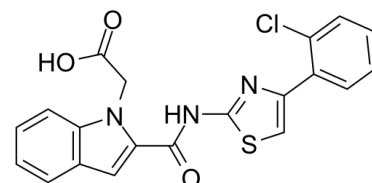


## Data Sheet

<b>Product Name:</b>	Lintitript
<b>Cat. No.:</b>	CS-0021860
<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>Solubility:</b>	DMSO : 100 mg/mL (242.80 mM; Need ultrasonic)



### BIOLOGICAL ACTIVITY:

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>. IC<sub>50</sub> & Target: 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> **In Vitro:** 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>. **In Vivo:** 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>.

### 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.

### CAIndexNames:

1H-Indole-1-acetic acid, 2-[[[4-(2-chlorophenyl)-2-thiazolyl]amino]carbonyl]-

### SMILES:

O=C(O)CN1C(C(NC2=NC(C3=CC=CC=C3Cl)=CS2)=O)=CC4=C1C=CC=C4

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

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