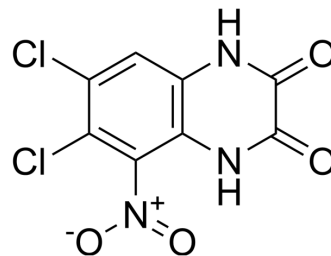


Licostinel

Cat. No.:	HY-117547		
CAS No.:	153504-81-5		
Molecular Formula:	C ₈ H ₃ Cl ₂ N ₃ O ₄		
Molecular Weight:	276.03		
Target:	Others		
Pathway:	Others		
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 : 12.5 mg/mL (45.28 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
1 mM		3.6228 mL	18.1140 mL	36.2279 mL
5 mM		0.7246 mL	3.6228 mL	7.2456 mL
10 mM		0.3623 mL	1.8114 mL	3.6228 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Licostinel (ACEA-1021) is a glycine receptor antagonist (IC₅₀: 59 nM). Licostinel has neuroprotective activity^{[1][2][3]}.

IC₅₀ & Target

59 nM (glycine receptor)^[1]

REFERENCES

- [1]. Zhou ZL, et al. Synthesis and SAR of novel di- and trisubstituted 1,4-dihydroquinoxaline-2,3-diones related to licostinel (Acea 1021) as NMDA/glycine site antagonists. *Bioorg Med Chem.* 2003 Apr 17;11(8):1769-80.
- [2]. Albers GW, et al. Dose escalation study of the NMDA glycine-site antagonist licostinel in acute ischemic stroke. *Stroke.* 1999 Mar;30(3):508-13.
- [3]. Martin H, et al. Effects of glycine receptor antagonism on spreading depression in the rat. *Neurosci Lett.* 1994 Oct 24;180(2):285-9.

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

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