## SDZ 220-581 hydrochloride

Cat. No.:	HY-13059B	0
CAS No.:	179411-93-9	
Molecular Formula:	$C_{16}H_{18}CI_2NO_5P$	, OH
Molecular Weight:	406.2	NH <sub>2</sub>
Target:	iGluR	HO
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling	ÖCI
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	H-CI

## SOLVENT & SOLUBILITY

In Vitro

Preparing Stock Solutions	Solvent		_	10
	Concentration	1 mg	5 mg	10 mg
	1 mM	2.4618 mL	12.3092 mL	24.6184
	5 mM	0.4924 mL	2.4618 mL	4.9237 n
	10 mM	0.2462 mL	1.2309 mL	2.4618 n

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

BIOLOGICAL ACTIVITY						
SDZ 220-581 hydrochloride is an orally active, potent, competitive NMDA receptor antagonist with pK <sub>i</sub> value of 7.7 <sup>[1]</sup> .						
pKi: 7.7 (NMDA receptor) <sup>[1]</sup>						
SDZ 220-581 (3.2-32 mg/kg; oral administration; for 24 hours; male OF-l mice) treatment dose-dependently protects mice against maximal electroshock seizures (MES). The time-course of protection by SDZ 220-581 is characterized by a rapid onset and long duration of action <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.						

Product Data Sheet



Result:

Dose-dependently protected mice against maximal electroshock seizures (MES) upon oral administration.

## REFERENCES

[1]. Urwyler S, et al. Biphenyl-derivatives of 2-amino-7-phosphono-heptanoic acid, a novel class of potent competitive N-methyl-D-aspartate receptor antagonists--II. Pharmacological characterization in vivo. Neuropharmacology. 1996 Jun;35(6):655-69.

[2]. Gilmour G, et al. In vitro characterisation of the novel positive allosteric modulators of the mGlu<sub>5</sub> receptor, LSN2463359 and LSN2814617, and their effects on sleep architecture and operant responding in the rat. Neuropharmacology. 2013 Jan;64:224-39.

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

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