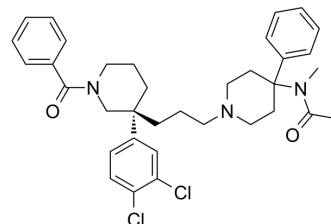


Osanetant

Cat. No.:	HY-14551		
CAS No.:	160492-56-8		
Molecular Formula:	C ₃₅ H ₄₁ Cl ₂ N ₃ O ₂		
Molecular Weight:	606.62		
Target:	Neurokinin Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 66.67 mg/mL (109.90 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.6485 mL	8.2424 mL	16.4848 mL
	5 mM	0.3297 mL	1.6485 mL	3.2970 mL
	10 mM	0.1648 mL	0.8242 mL	1.6485 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (4.12 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (4.12 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Osanetant (SR142801) is a selective NK3 receptor antagonist. Osanetant produces anxiolytic- and antidepressant-like effects and is researched for schizophrenia^[1].

IC₅₀ & Target

NK3

In Vivo

Osanetant (SR142801; po; 1-10 mg/kg; 60 min before testing) significantly increases social interaction time^[1].
Osanetant (ip; 5 and 10 mg/kg; 30 min before testing) decreases immobility time^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Mongolian gerbils of 7 weeks old (50-60 g) ^[1]
Dosage:	1, 3 and 10 mg/kg
Administration:	Po; 60 min before testing
Result:	Significantly increased social interaction time.

REFERENCES

[1]. Salomé N, et al. Selective blockade of NK2 or NK3 receptors produces anxiolytic- and antidepressant-like effects in gerbils. *Pharmacol Biochem Behav.* 2006 Apr;83(4):533-9.

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

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