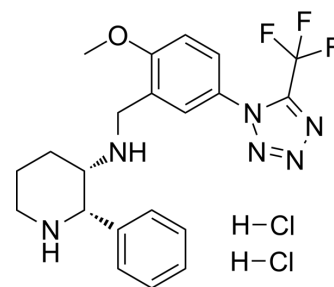


Vofopitant dihydrochloride

Cat. No.:	HY-12143
CAS No.:	168266-51-1
Molecular Formula:	C ₂₁ H ₂₅ Cl ₂ F ₃ N ₃ O
Molecular Weight:	505.36
Target:	Neurokinin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 33.33 mg/mL (65.95 mM; Need ultrasonic)
DMSO : 33.33 mg/mL (65.95 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.9788 mL	9.8939 mL	19.7879 mL
	5 mM	0.3958 mL	1.9788 mL	3.9576 mL
	10 mM	0.1979 mL	0.9894 mL	1.9788 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 50 mg/mL (98.94 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (4.95 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (4.95 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (4.95 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Vofopitant dihydrochloride (GR 205171A) is a potent, selective and orally available tachykinin neurokinin 1(NK1) receptor antagonist, inhibits [³H]SP binding to the NK1 receptor with pK_i values of 9.5 and 10.6 in rat and human membranes respectively, acts as a potential broad-spectrum anti-emetic agent^[1].

IC₅₀ & Target

NK1

REFERENCES

[1]. Gardner CJ, et al. GR205171: a novel antagonist with high affinity for the tachykinin NK1 receptor, and potent broad-spectrum anti-emetic activity. Regul Pept. 1996 Aug 27;65(1):45-53.

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

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