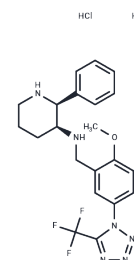


Vofopitant dihydrochloride

Chemical Properties

CAS No. :	168266-51-1
Formula:	C ₂₁ H ₂₅ Cl ₂ F ₃ N ₆ O
Molecular Weight:	505.36
Storage:	Store under nitrogen Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Vofopitant dihydrochloride (GR 205171A) is an orally available, selective tachykinin NK1 receptor antagonist that inhibits [3H]SP binding to NK1 with pKi values of 9.5 and 10.6, respectively. It is a potential compound for the treatment of pathological vomiting.
Targets(IC50)	Neurokinin receptor

Solubility Information

Solubility	H ₂ O: 20 mg/mL (39.58 mM), Sonication is recommended. DMSO: 20 mg/mL (39.58 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.96 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0396 mL	0.1979 mL	0.3958 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

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