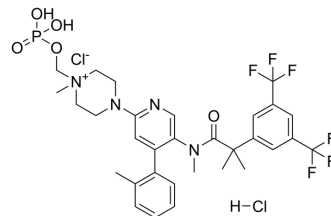


Fosnetupitant chloride monohydrochloride

Cat. No.:	HY-133206A
CAS No.:	1643757-72-5
Molecular Formula:	C ₃₁ H ₃₇ Cl ₂ F ₆ N ₄ O ₅ P
Molecular Weight:	761.52
Target:	Neurokinin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (131.32 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.3132 mL	6.5658 mL	13.1316 mL
		5 mM		0.2626 mL	1.3132 mL	2.6263 mL
	10 mM		0.1313 mL	0.6566 mL	1.3132 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (3.28 mM); Clear solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (3.28 mM); Clear solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (3.28 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Fosnetupitant chloride monohydrochloride (Pronetupitant chloride monohydrochloride) is an NK1 antagonist with pK _i values of 9.5, 6.1 for human NK1 and NK3 receptor, respectively. Fosnetupitant chloride monohydrochloride is a methylene phosphate prodrug of Netupitant ^[1] .	
IC₅₀ & Target	hNK1 9.5 (pKi)	hNK3 6.1 (pKi)
In Vitro	Fosnetupitant chloride monohydrochloride displays a micromolar affinity for the 5-HT6 (pK _i - 5.2) receptor and type L Ca ²⁺ channels (pK _i - 5.7) and does not bind all the other proteins investigated ^[1] .	

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Fosnetupitant chloride monohydrochloride (i.v.) is converted in few minutes to Netupitant (HY-16346) in vivo^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ruzza C, et al. In vitro and in vivo pharmacological characterization of Pronetupitant, a prodrug of the neurokinin 1 receptor antagonist Netupitant. Peptides. 2015 Jul;69:26-32.

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

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