Fosnetupitant

Cat. No.: HY-17615

CAS No.: 1703748-89-3

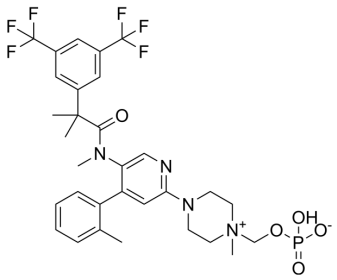
Molecular Formula: $C_{31}H_{35}F_6N_4O_5P$

Molecular Weight: 688.6

Target: Neurokinin Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: -20°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (145.22 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.4522 mL	7.2611 mL	14.5222 mL
	5 mM	0.2904 mL	1.4522 mL	2.9044 mL
	10 mM	0.1452 mL	0.7261 mL	1.4522 mL

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

BIOLOGICAL ACTIVITY

Description

Fosnetupitant (Pronetupitant) a methylene phosphate proagent of Netupitant. Fosnetupitant (Pronetupitant) exhibits a pK_i of 9.5 for human NK_1 receptor[1].

In Vitro

Fosnetupitant (Pronetupitant) displays 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

Pronetupitant is rapidly and extensively converted to Netupitant after i.v. injection in rats[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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