Fosaprepitant dimeglumine

Cat. No.: HY-14407A

CAS No.: 265121-04-8

Molecular Formula: $C_{37}H_{56}F_7N_6O_{16}P$

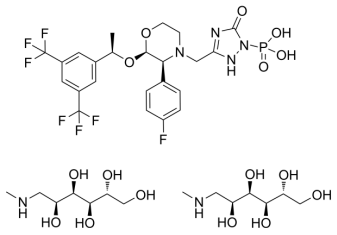
Molecular Weight: 1004.83

Target: Neurokinin Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: 4°C, sealed storage, away from moisture

* The compound is unstable in solutions, freshly prepared is recommended.



SOLVENT & SOLUBILITY

In Vitro

H_2O : 50 mg/mL (49.76 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.9952 mL	4.9760 mL	9.9519 mL
	5 mM	0.1990 mL	0.9952 mL	1.9904 mL
	10 mM	0.0995 mL	0.4976 mL	0.9952 mL

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

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 100 mg/mL (99.52 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Fosaprepitant dimeglumine (MK-0517) is a proagent of Aprepitant (HY-10052). Fosaprepitant dimeglumine is a neurokinin-1 receptor antagonist, which is development for the prevention of chemotherapy-induced nausea and vomiting (CINV)[1].

IC_{50} & Target

Neurokinin-1 receptor[1]

In Vivo

Fosaprepitant dimeglumine (30 mg/kg; i.p.; daily; for 7 days) attenuates tolerance to morphine and increases the antinociceptive effect in in rats[1].

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

Animal Model:	Sprague-Dawley rats[1]
Dosage:	30 mg/kg

Administration:	Intraperitoneal injection, daily, for 7 days
Result:	Increased the antinociceptive effect of morphine compared to control group.

CUSTOMER VALIDATION

- Cancer Biol Ther. 2019;20(5):653-665.
- New J Chem. 29th November 2021.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Pranav Prasoon, et al. Role of fosaprepitant, a neurokinin Type 1 receptor antagonist, in morphine-induced antinociception in rats. Indian J Pharmacol. 2016 Jul-Aug; 48(4): 394-398.

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