
Product Data Sheet

Product Name: Fosaprepitant

Cat. No.: GC16246

Chemical Properties

Cas. No. 172673-20-0

Chemical Name [5-[[[(2R,3S)-2-[(1R)-1-[3,5-bis(trifluoromethyl)phenyl]ethoxy]-3-(4-fluorophenyl)morpholin-4-yl]methyl]-3-oxo-1H-1,2,4-triazol-2-yl]phosphonic acid

SMILES CC(C1=CC(=CC(=C1)C(F)(F)F)C(F)(F)F)OC2C(N(CCO2)CC3=NC(=O)N(N3)P(=O)(O)O)C4=CC=C(C=C4)F

Formula	C ₂₃ H ₂₂ F ₇ N ₄ O ₆ P	M.Wt	614.41
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Solubility	≥ 30.5mg/mL in DMSO	Storage	Store at -20°C
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General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Fosaprepitant (L-758,298 MK-0517) is an antagonist of neurokinin-1[1].

Fosaprepitant has shown the pharmacodynamic function by its active metabolite aprepitant. Fosaprepitant has been found to be a highly selective antagonist of the NK-1 receptor and inhibit the cation of substance P. In addition, Fosaprepitant has been exhibited to have the effect on cisplatin induced emesis in the classical ferret model. Besides, because of the brain penetrating of aprepitant, Fosaprepitant has been revealed to have a very high affinity for the NK-1 receptor and increase the efficacy by dexamethasone, granisetron and so on. Fosaprepitant has been evaluated to use in the prevention of chemotherapy-induced nausea and vomiting (CINV) by combination with a 5-HT₃ antagonist and a steroid [1].

References:

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

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[1] Van Belle SJ¹, Cocquyt V. Fosaprepitant dimeglumine (MK-0517 or L-785,298), an intravenous neurokinin-1 antagonist for the prevention of chemotherapy induced nausea and vomiting. *Expert Opin Pharmacother.* 2008 Dec; 9(18):3261-70.

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