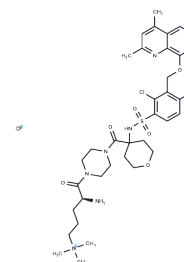


Fasitibant chloride

Chemical Properties

CAS No. :	1157852-02-2
Formula:	C36H49Cl3N6O6S
Molecular Weight:	800.23
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Fasitibant chloride (MEN16132 free base) is a powerful and specific nonpeptide antagonist of the bradykinin B2 receptor (B2R). This compound effectively reduces joint pain and mitigates joint edema in a rat model of Carrageenan-induced arthritis.
In vitro	Fasitibant chloride (MEN16132 free base; 1 μ M; pre-treatment 30 min before BK) consistently reduces FGF-2 expression and decreases BK-induced FGFR-1 phosphorylation without affecting FGFR-2 activity. Additionally, it impedes the phosphorylation of FRS α , ERK1/2, and STAT3, excluding AKT, in HUVEC. In a cell viability assay on human umbilical vein endothelial cells (HUVEC) with a concentration of 1 μ M and pre-treatment 30 min before exposure to Bradykinin (BK; 1 μ M; for 24 h), fasitibant chloride demonstrated a similar reduction in FGF-2 expression and decrease in BK-induced FGFR-1 phosphorylation.
In vivo	Fasitibant chloride (MEN16132 free base; 100 μ g per knee; injected into the knee 30 minutes before λ -carrageenan) effectively reduces carrageenan-induced joint pain and knee joint edema by 40-45% in male Wistar rats weighing 250-300 g[1]. The treatment also significantly decreases neutrophil infiltration in the synovium by approximately 60% and prostaglandin release by around 30%, showcasing its potent anti-inflammatory and analgesic properties.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2496 mL	6.2482 mL	12.4964 mL
5 mM	0.2499 mL	1.2496 mL	2.4993 mL
10 mM	0.125 mL	0.6248 mL	1.2496 mL
50 mM	0.025 mL	0.125 mL	0.2499 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.

Reference

Claudio Valenti, et al. Fasitibant Chloride, a Kinin B₂ Receptor Antagonist, and Dexamethasone Interact to Inhibit Carrageenan-Induced Inflammatory Arthritis in Rats. Br J Pharmacol. 2012 Jun;166(4):1403-10.

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