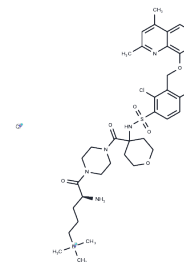


## Fasitibant chloride

## Chemical Properties

CAS No. : 1157852-02-2  
 Formula: C<sub>36</sub>H<sub>49</sub>Cl<sub>3</sub>N<sub>6</sub>O<sub>6</sub>S  
 Molecular Weight: 800.23  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Fasitibant chloride (MEN16132 free base) is a potent and specific nonpeptide antagonist of the bradykinin B2 receptor (B2R), effectively reducing joint pain and mitigating joint edema in a rat model of Carrageenan-induced arthritis.
Targets(IC50)	Others,Bradykinin Receptor
In vitro	Fasitibant chloride (MEN16132 free base; 1 μM; pre-treatment 30 min before BK) consistently reduces FGF-2 expression and diminishes BK-induced FGFR-1 phosphorylation without affecting FGFR-2 activity in HUVECs, also impeding the phosphorylation of FRSα, ERK1/2, and STAT3 but not AKT. In a cell viability assay on HUVECs, it demonstrated the same reduction in FGF-2 expression and decrease in BK-induced FGFR-1 phosphorylation.
In vivo	Fasitibant chloride (MEN16132 free base; 100 μg 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 potent anti-inflammatory and analgesic properties.

### Preparing Stock Solutions

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	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

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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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Claudio Valenti, et al. Fasitibant Chloride, a Kinin B<sub>2</sub> Receptor Antagonist, and Dexamethasone Interact to Inhibit Carrageenan-Induced Inflammatory Arthritis in Rats. *Br J Pharmacol*. 2012 Jun;166(4):1403-10.

Erika Terzuoli, et al. Bradykinin B2 Receptor Contributes to Inflammatory Responses in Human Endothelial Cells by the Transactivation of the Fibroblast Growth Factor Receptor FGFR-1. *Int J Mol Sci*. 2018 Sep 6;19(9):2638.

Paola Cucchi, et al. MEN16132, a Novel Potent and Selective Nonpeptide Antagonist for the Human Bradykinin B2 Receptor. *In Vitro Pharmacology and Molecular Characterization. Eur J Pharmacol*. 2005 Dec 28;528(1-3):7-16.

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