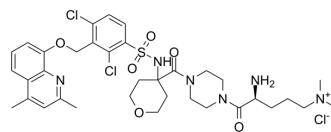


Fasitibant chloride

Cat. No.:	HY-14886
CAS No.:	1157852-02-2
Molecular Formula:	C ₃₆ H ₄₉ Cl ₃ N ₆ O ₆ S
Molecular Weight:	800.23
Target:	Bradykinin Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Fasitibant chloride (MEN16132 free base) is a potent and selective nonpeptide bradykinin B2 receptor (B2R) antagonist. Fasitibant chloride reduces joint pain and diminishes joint oedema in Carrageenan-induced arthritis rat model ^{[1][2][3]} .									
IC₅₀ & Target	B2R ^{[1][2]}									
In Vitro	<p>Fasitibant chloride (MEN16132 free base; 1 μM; pre-treatment 30 min before BK) produces a consistent reduction of the FGF-2 expression (BK induced) and decrement of BK induced-FGFR-1 phosphorylation^[2].</p> <p>Fasitibant chloride inhibits the phosphorylation of FRSα, ERK1/2, STAT3 (BK induced; 1 μM; for 15 min), except AKT in HUVEC^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[2]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>human umbilical vein endothelial cells (HUVEC)</td> </tr> <tr> <td>Concentration:</td> <td>1 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>Pre-treatment 30 min before Bradykinin (BK; 1 μM; for 24 h)</td> </tr> <tr> <td>Result:</td> <td>Produced a consistent reduction of the FGF-2 expression (BK induced) and decrement of BK induced-FGFR-1 phosphorylation (without affecting FGFR-2 activity).</td> </tr> </table>		Cell Line:	human umbilical vein endothelial cells (HUVEC)	Concentration:	1 μM	Incubation Time:	Pre-treatment 30 min before Bradykinin (BK; 1 μM; for 24 h)	Result:	Produced a consistent reduction of the FGF-2 expression (BK induced) and decrement of BK induced-FGFR-1 phosphorylation (without affecting FGFR-2 activity).
Cell Line:	human umbilical vein endothelial cells (HUVEC)									
Concentration:	1 μM									
Incubation Time:	Pre-treatment 30 min before Bradykinin (BK; 1 μM; for 24 h)									
Result:	Produced a consistent reduction of the FGF-2 expression (BK induced) and decrement of BK induced-FGFR-1 phosphorylation (without affecting FGFR-2 activity).									
In Vivo	<p>Fasitibant chloride (MEN16132 free base; 100 μg per knee; injection into the knee; 30 min before λ-carrageenan) inhibits about 40-45% on the carrageenan-induced joint pain and knee joint oedema^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Male Wistar rats weighing 250-300 g^[1]</td> </tr> <tr> <td>Dosage:</td> <td>100 μg per knee</td> </tr> <tr> <td>Administration:</td> <td>Injection into the knee; 30 min before λ-carrageenan</td> </tr> <tr> <td>Result:</td> <td>Inhibited about 40-45% on the carrageenan-induced joint pain and knee joint oedema. Reduced the neutrophil infiltration in the synovium by about 60% and the release of</td> </tr> </table>		Animal Model:	Male Wistar rats weighing 250-300 g ^[1]	Dosage:	100 μg per knee	Administration:	Injection into the knee; 30 min before λ-carrageenan	Result:	Inhibited about 40-45% on the carrageenan-induced joint pain and knee joint oedema. Reduced the neutrophil infiltration in the synovium by about 60% and the release of
Animal Model:	Male Wistar rats weighing 250-300 g ^[1]									
Dosage:	100 μg per knee									
Administration:	Injection into the knee; 30 min before λ-carrageenan									
Result:	Inhibited about 40-45% on the carrageenan-induced joint pain and knee joint oedema. Reduced the neutrophil infiltration in the synovium by about 60% and the release of									

prostaglandins by about 30%.

REFERENCES

- [1]. 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.
- [2]. 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.
- [3]. 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.
-

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA