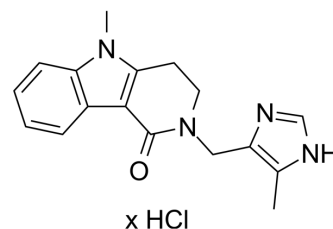


Alosetron (Hydrochloride(1:X))

Cat. No.:	HY-70050
CAS No.:	132414-02-9
Molecular Formula:	C ₁₇ H ₁₈ N ₄ O.xClH
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Alosetron (GR 68755) Hydrochloride(1:X) is a potent and highly selective serotonin 5-HT ₃ receptor antagonist. Alosetron Hydrochloride(1:X) is used for the research of irritable bowel syndrome (IBS). Alosetron Hydrochloride(1:X) blocks the fast 5HT ₃ -mediated depolarisation of guinea-pig myenteric and submucosal neurons, with IC ₅₀ at ~55 nM. Alosetron Hydrochloride(1:X) attenuates the visceral nociceptive effect of rectal distension in conscious or anaesthetised dogs. Anti-inflammatory effects ^{[1][2]} .
IC₅₀ & Target	5-HT ₃ Receptor
In Vivo	Dexamethasone and Alosetron-treated (1 mg/kg; ip; daily for 6 days) rats exhibits a significant decrease in the diarrhea index, in comparison with TNBS-control group, especially after the initial 2 days of treatment following the induction of colitis ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Balfour JA, Goa KL, Perry CM. Alosetron. *Drugs*. 2000;59(3):511-520.
- [2]. Motavallian A, et al. Anti-inflammatory effects of alosetron mediated through 5-HT₃ receptors on experimental colitis. *Res Pharm Sci*. 2019;14(3):228-236.

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

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