Cisapride monohydrate

Cat. No.: HY-14149A

CAS No.: 260779-88-2

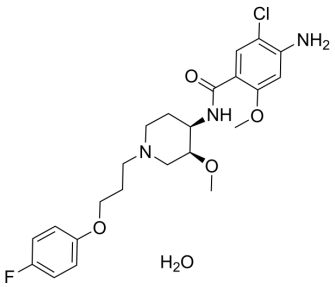
Molecular Formula: $C_{23}H_{31}ClFN_3O_5$

Molecular Weight: 483.96

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	Cisapride monohydrate is an orally and potent 5-HT_4 receptor agonist and hERG inhibitor. Cisapride monohydrate is an prokinetic agent which facilitates or restores motility throughout the length of the gastrointestinal tract. Cisapride monohydrate stimulates gastrointestinal motor activity through an indirect mechanism involving the release of acetylcholine mediated by postganglionic nerve endings in the myenteric plexus of the gut[1][2].
IC_{50} & Target	5-HT_4 Receptor 0.14 μM (EC50)

CUSTOMER VALIDATION

- ACS Omega. 2020 Nov 15;5(46):29935-29942.

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REFERENCES

[1]. Wiseman, L.R., Faulds, D. Cisapride. Drugs 47, 116–152 (1994).

[2]. Toga T, et al. The 5-HT(4) agonists cisapride, mosapride, and CJ-033466, a Novel potent compound, exhibit different human ether-a-go-go-related gene (hERG)-blocking activities. J Pharmacol Sci. 2007 Oct;105(2):207-10.

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