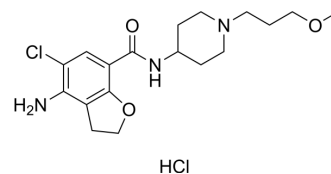


## Prucalopride hydrochloride

Cat. No.:	HY-14152
CAS No.:	179474-80-7
Molecular Formula:	C <sub>18</sub> H <sub>27</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>3</sub>
Molecular Weight:	404.33
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

Prucalopride hydrochloride is an orally active, selective and specific 5-HT<sub>4</sub> receptor agonist (high affinity), with pK<sub>i</sub>s of 8.6 and 8.1 for human 5-HT<sub>4a</sub>/4b receptors, respectively. Prucalopride hydrochloride improves intestinal motility by promoting regeneration of the intestinal nervous system in rats. Prucalopride hydrochloride also shows anticancer activity by blocking of the PI3K/AKT/mTor signaling pathway. Prucalopride hydrochloride can be used in studies of chronic constipation, pseudo-intestinal obstruction and cancer<sup>[1][2][3]</sup>.

### CUSTOMER VALIDATION

- Nature. 2023 Nov 7.
- Biochem Biophys Res Commun. 2021 Apr 6;556:16-22.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

- [1]. Chen M, et al. Prucalopride inhibits lung cancer cell proliferation, invasion, and migration through blocking of the PI3K/AKT/mTor signaling pathway. Hum Exp Toxicol. 2020 Feb;39(2):173-181.
- [2]. Briejer MR, et al. The in vitro pharmacological profile of prucalopride, a novel enterokinetic compound. Eur J Pharmacol. 2001 Jun 29;423(1):71-83.
- [3]. Wang Y, et al. Prucalopride might improve intestinal motility by promoting the regeneration of the enteric nervous system in diabetic rats. Int J Mol Med. 2022 Jul;50(1):87.

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

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