

# Prucalopride

Catalog No: tcsc2574



## Available Sizes

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

179474-81-8

**Formula:**

$C_{18}H_{26}ClN_3O_3$

**Pathway:**

Neuronal Signaling;GPCR/G Protein

**Target:**

5-HT Receptor;5-HT Receptor

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 31$  mg/mL (84.27 mM)

**Observed Molecular Weight:**

367.87

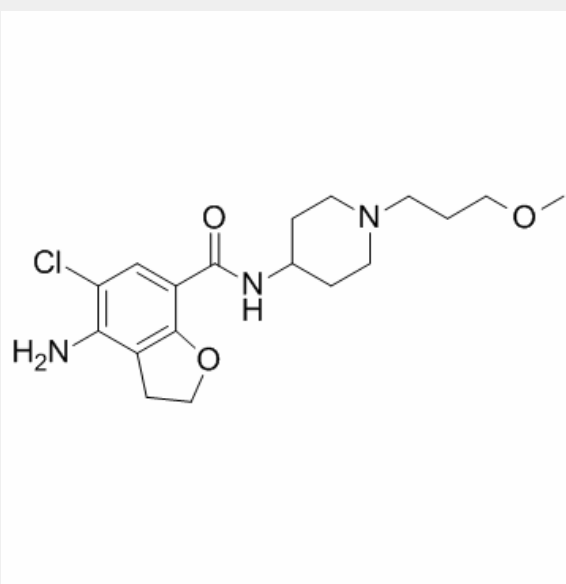
## Product Description

Prucalopride (R093877) is a drug acting as a selective, high affinity 5-HT<sub>4</sub> receptor agonist(pK<sub>i</sub>=8.6/8.1 for 5-HT<sub>4a</sub>/4b); >150-fold higher affinity for 5-HT<sub>4</sub> receptors than for other receptors.

IC50 value: 8.6/8.1 for 5-HT4a/4b(pKi)

Target: 5-HT4 receptor

Prucalopride is a novel enterokinetic compound and is the first representative of the benzofuran class. Receptor binding data have demonstrated prucalopride's high affinity to both investigated 5-HT(4) receptor isoforms, with mean pK(i) estimates of 8.60 and 8.10 for the human 5-HT(4a) and 5-HT(4b) receptor, respectively. From the 50 other binding assays investigated in this study only the human D(4) receptor (pK(i) 5.63), the mouse 5-HT(3) receptor (pK(i) 5.41) and the human sigma(1) (pK(i) 5.43) have shown measurable affinity, resulting in at least 290-fold selectivity for the 5-HT(4) receptor [1].



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