Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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 : ≥ 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-HT4 receptor agonist(pKi=8.6/8.1 for 5-HT4a/4b); >150-fold higher affinity for 5-HT4 receptors than for other receptors.

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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].