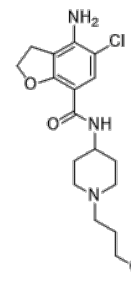


Product Name : Prucalopride
Cat. No. : PC-23280
CAS No. : 179474-81-8
Molecular Formula : C₁₈H₂₆ClN₃O₃
Molecular Weight : 367.87
Target : 5-HT Receptor
Solubility : 10 mM in DMSO



Biological Activity

Prucalopride (R-108512) is a potent, selective 5-HT₄ receptor agonist with pK_i of 8.6 and 8.1 for 5-HT_{4a} and 5-HT_{4b}, >290-fold higher affinity for 5-HT₄ receptors than for other receptors.

Prucalopride targets the impaired motility associated with chronic constipation, thus normalizing bowel movements.

Prucalopride induces contractions (pEC₅₀=7.48) in the guinea-pig colon, demonstrates anti-cholinergic, anticholinesterase or nonspecific inhibitory activity and does not antagonise 5-HT_{2A}, 5-HT_{2B} and 5-HT₃ receptors or motilin, CCK1 receptors.

References

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Poen AC, et al. Aliment Pharmacol Ther. 1999 Nov;13(11):1493-7.

Briejer MR, et al. Eur J Pharmacol. 2001 Jun 29;423(1):71-83.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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