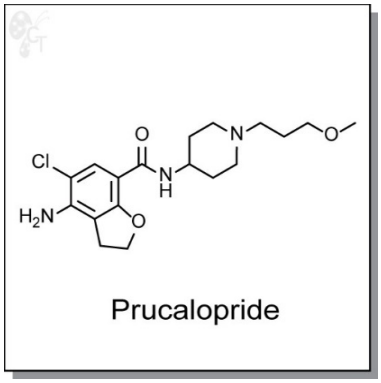
Cellagen Technology

Product Specification Sheet

Product Name: Prucalopride

Catalog Number: C7782



Technical information:

Chemical Formula:	$C_{18}H_{26}ClN_3O_3$
CAS #:	179474-81-8
Molecular Weight:	367.87
Purity:	> 98%
Appearance:	White solid
Solubility:	Soluble in DMSO up to 100 mM
Chemical Name:	7-Benzofurancarboxamide, 4-amino-5-chloro-2,3-dihydro-N-[1-(3-methoxypropyl)-4-piperidinyl]
Storage:	Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.
Shelf Life:	In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.

Handling:

- To make 10 mM stock solution, add 0.272mL of DMSO for each mg of Prucalopride.
- For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity:

Prucalopride is an orally-available, dibenzofuran-based, enterokinetic agonist of the human serotonin 5-HT4a and 5-HT4b receptor isoforms with Ki estimates of 3 nM and 8 nM, respectively. It has modest selectivity over the human D4 receptor (2.3 uM), mouse 5-HT3 receptor (3.7 uM) and human s1 receptor (3.7 uM). (1, 2)

Initial tolerability studies show that prucalopride does not encounter cardiotoxicity issues to the extent seen in other drugs of this class. [3]

Reference:

1. Briejer et al., The in vitro pharmacological profile of prucalopride, a novel enterokinetic compound, Eur. J. Pharmcol. 2001, 423, 71-83. Pubmed ID: 11438309
2. Frampton et al., Prucalopride: ADIS Drug Profile. Drugs, 2009, 69(17), 2453-2476. Pubmed ID: 19911858
3. Quigley et al., Prucalopride: safety, efficacy and potential applications. Ther. Adv. Gastroenterol. 2012, 5(1), 23-30.

To reorder: http://www.cellagentech.com/Prucalopride/

For Technical Support: technical@cellagentech.com

Chemicals are sold for research use only, not for clinical or diagnostic use.