

Product Data Sheet

Product Name: Alosetron Hydrochloride

Cat. No.: GC11166

Chemical Properties

Cas. No. 122852-69-1

Chemical Name 5-methyl-2-[(5-methyl-1H-imidazol-4-yl)methyl]-3,4-dihydropyrido[4,3-b]indol-1-one;hydrochloride

SMILES CC1=C(N=CN1)CN2CCC3=C(C2=O)C4=CC=CC=C4N3C.Cl

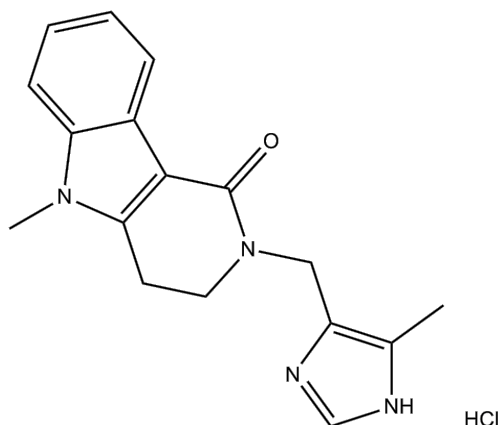
Formula $C_{17}H_{19}ClN_4O$ M.Wt 330.81

Solubility Insoluble in DMSO, ≥ 46.4 mg/mL in Water with gentle warming Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Alosetron Hydrochloride (GR 68755 Hydrochloride) is a Serotonin 5HT₃-receptor antagonist that is used in treatment of irritable bowel syndrome. IC₅₀ Value: Target: 5-HT Receptor. Alosetron has an antagonist action on the 5-HT₃ receptors of the enteric nervous system of the gastrointestinal tract. While being a 5-HT₃ antagonist like ondansetron, it is not classified or approved as an antiemetic. Since stimulation of 5-HT₃ receptors is positively correlated with gastrointestinal motility, alosetron's

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

5-HT₃ antagonism slows the movement of fecal matter through the large intestine, increasing the extent to which water is absorbed, and decreasing the moisture and volume of the remaining waste products. From Wikipedia.

References:

- [1]. Targeting the 5-HT₃ receptor in the treatment of irritable bowel syndrome By Spiller, Robin C. From Current Opinion in Pharmacology (2011), 11(1), 68-74.
- [2]. Lucak SL.Optimizing outcomes with alosetron hydrochloride in severe diarrhea-predominant irritable bowel syndrome.Therap Adv Gastroenterol. 2010 May;3(3):165-72.
- [3]. Lewis JH.Alosetron for severe diarrhea-predominant irritable bowel syndrome: safety and efficacy in perspective.Expert Rev Gastroenterol Hepatol. 2010 Feb;4(1):13-29.
- [4]. Turgeon DK, Tayeh N, Fontana RJ.Acute hepatitis associated with alosetron (Lotronex).J Clin Gastroenterol. 2005 Aug;39(7):641-2.
- [5]. Miller DP, Alfredson T, Cook SF, Sands BE, Walker AM.Incidence of colonic ischemia, hospitalized complications of constipation, and bowel surgery in relation to use of alosetron hydrochloride.Am J Gastroenterol. 2003 May;98(5):1117-22.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA