
Product Data Sheet

Product Name: Alosetron ((Z)-2-butenedioate)

Cat. No.: GC35301

Chemical Properties

Cas. No. 122852-43-1

SMILES O=C(C(C1=C2C=CC=C1)=C(N2C)CC3)N3CC4=C(NC=N4)C.O=C(/C=C\C(O)=O)OFormula $C_{21}H_{22}N_4O_5$ M.Wt 410.42

Solubility Soluble in DMSO 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 Evaluation sample solution : ship with blue ice All other available size: ship with Condition RT , or blue ice upon request.

Structure

Background

Alosetron (Z)-2-butenedioate (GR 68755 (Z)-2-butenedioate) is a Serotonin 5HT3-receptor antagonist that is used in treatment of irritable bowel syndrome. IC50 Value: N/A 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 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.

[1]. Bleser S. Alosetron for severe diarrhea-predominant irritable bowel syndrome: improving patient outcomes. *Curr Med Res Opin.* 2011 Mar;27(3):503-12. [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]. Painsipp E, Shahbazian A, Holzer P. Alosetron, cilansetron and tegaserod modify mesenteric but not colonic blood flow in rats. *Br J Pharmacol.* 2009 Nov;158(5):1210-26. [5]. Targeting the 5-HT3

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

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receptor in the treatment of irritable bowel syndrome By Spiller, Robin C. From Current Opinion in Pharmacology (2011), 11(1), 68-74.

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