
Product Data Sheet

Product Name: Cisapride hydrate

Cat. No.: GC25259

Chemical Properties

Cas. No. 260779-88-2

Formula C₂₃H₂₉ClFN₃O₄.H₂O

M.Wt 483.96

Solubility DMSO: 96 mg/mL (198.36 mM); Water: Insoluble; Ethanol: Insoluble
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 sizes: ship with RT, or blue ice upon request.

Structure

Background

Cisapride (Propulsid, Alimix, Propulsin, Enteropride, Kinestase) acts directly as a selective serotonin 5-HT₄ receptor agonist with IC₅₀ of 0.483 μM. And it also acts indirectly as a parasympathomimetic.

Cisapride inhibits vascular K_v current independently of serotonin 5-HT₄-receptor activation[2]. As HERG channel blocker, cisapride can inhibit the growth of gastric cancer cells by altering distribution of cell cycle and inducing apoptosis so as to be of potential value in the treatment of gastric cancer. Cisapride could inhibit the growth and clonogenicity of human gastric cancer lines by specific blockage of HERG channel in a time- and dose-dependent manner while has little effects on GES cells[3].

Cisapride is widely prescribed for the treatment of gastrointestinal motility dysfunctions, such as gastroesophageal reflux disorder (GERD), chronic intestinal pseudo-obstruction, and slow-transit constipation gastroparesis. Although cisapride is a beneficial prokinetic agent, several common side effects, such as abdominal pain, nausea, diarrhea, and increased frequency of urination, have been reported[2]. In rat, the PK profile indicates the T_{1/2} for cisapride is 1.48 h[1].

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

[1] Park JS, et al. Eur J Med Chem. 2016, 109:75-88. [2] Kim HW, et al. Biochem Biophys Res Commun. 2016, 478(3):1423-8. [3] Shao XD, et al. Cancer Biol Ther. 2005, 4(3):295-301.

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