
Product Data Sheet

Product Name: Abeprazan hydrochloride

Cat. No.: GC65377

Chemical Properties

Cas. No. 1902954-87-3

Formula C₁₉H₁₈ClF₃N₂O₃S

M.Wt 446.87

Solubility DMSO : 25 mg/mL (55.94 mM; Need ultrasonic)

Storage -20°C, away from moisture

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

Abeprazan hydrochloride (DWP14012 hydrochloride) is a potassium-competitive acid blocker. Abeprazan hydrochloride inhibits H⁺, K⁺- ATPase by reversible potassium-competitive ionic binding with no acid activation required. Abeprazan hydrochloride is developed as a potential alternative to proton pump inhibitor for the treatment of acid-related diseases[1].

The mechanism of action of Abeprazan hydrochloride is reversibly binding to H⁺, K⁺-ATPase, and, unlike that of PPIs, does not require acidic environment for drug activation[1].

Abeprazan hydrochloride (DWP14012 hydrochloride) inhibits acid secretion in a dose-dependent manner and the inhibition of gastric acid secretion is equal to or greater than that of vonoprazan, a previously approved P-CAB, in various in vivo studies using pylorus-ligated rats, lumen-perfused rat models and heidenhain pouch dog models[1].

[1]. Sunwoo J, et al. Safety, tolerability, pharmacodynamics and pharmacokinetics of DWP14012, a novel potassium-competitive acid blocker, in healthy male subjects. *Aliment Pharmacol Ther.* 2018 Jul;48(2):206-218.

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

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