

Product Data Sheet

Product Name: Dutogliptin

Cat. No.: GC31467

Chemical Properties

Cas. No. 852329-66-9

SMILES O=C(CN[C@@H]1CCNC1)N(CCC2)[C@@H]2B(O)O

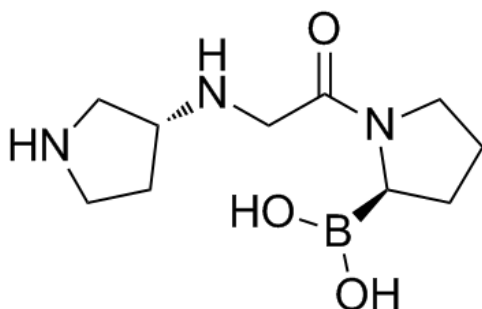
Formula $C_{10}H_{20}BN_3O_3$ M.Wt 241.1

Solubility DMSO: 300 mg/mL (1244.30 mM) 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

Dutogliptin is an orally available, potent, and selective dipeptidyl peptidase-4 (DPP4) inhibitor.

Dutogliptin is highly water soluble (>2000 mg/mL), has low cellular permeability, exhibits low plasma protein binding (11%) and is rapidly absorbed with a Tmax of 3-4 h and a half-life of 10-13 h. The compound is metabolically stable and does not inhibit or induce the activity of major CYP450s[2].

[1]. Marier JF, et al. Population pharmacokinetic analysis of dutogliptin, a selective dipeptidyl

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

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peptidase-4 inhibitor. Clin Pharmacol Drug Dev. 2014 Jul;3(4):297-304. [2]. Pattzi HM, et al. Dutogliptin, a selective DPP4 inhibitor, improves glycaemic control in patients with type 2 diabetes: a 12-week, double-blind, randomized, placebo-controlled, multicentre trial. Diabetes Obes Metab. 2010 Apr;12(4):348-55.

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