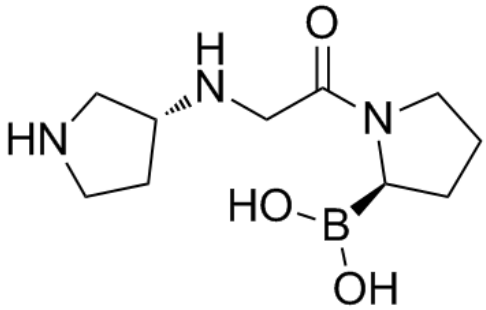
Product Data Sheet

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

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.

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