
Product Data Sheet

Product Name: DPP-IV-IN-1

Cat. No.: GC31547

Chemical Properties

Cas. No. 625110-37-4

SMILES N#C[C@H]1N(C(CNC(C)(C)CO)=O)C[C@@H](F)C1

Formula C11H18FN3O2 M.Wt 243.28

Solubility DMSO : 125 mg/mL (513.81 mM; Need ultrasonic) 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

DPP-IV-IN-1 is a potent inhibitor of dipeptidyl peptidase IV (DPP-IV), a highly specific serine protease, with an IC₅₀ of 4.6 nM.

DPP-IV-IN-1 (0.1 and 0.3 mg/kg, p.o.) reduces the increase in plasma glucose beginning 30 min after glucose loading, and significantly suppresses hyperglycemia at the dose of 0.3 mg/kg in a rat model of obesity and impaired glucose tolerance. The effect is based on its inhibitory effect on plasma DPP-IV activity[1].

[1]. Fukushima H, et al. Synthesis and structure-activity relationships of potent 4-fluoro-2-cyanopyrrolidine dipeptidyl peptidase IV inhibitors. *Bioorg Med Chem.* 2008 Apr 1;16(7):4093-106.

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

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