

Product Data Sheet

Product Name: DBPR108

Cat. No.: GC19120

Chemical Properties

Cas. No. 1186426-66-3

SMILES N#C[C@H]1N(C(CNC(C)(C)CC(N2CCCC2)=O)=O)C[C@@H](F)C1

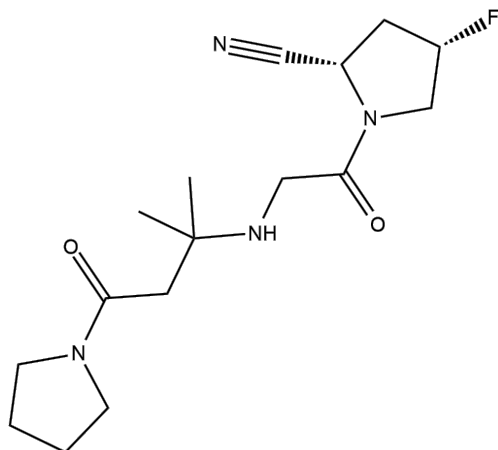
Formula $C_{16}H_{25}FN_4O_2$ M.Wt 324.39

Solubility DMSO : ≥ 25 mg/mL (77.07 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

DBPR108 is a potent, selective, and orally bioavailable dipeptide-derived inhibitor of DPP4 with IC₅₀ of 15 nM; no inhibition on DPP8 and DPP9. IC₅₀ value: 15 nM [1] Target: DPP4 inhibitor DBPR108 is an IC₅₀=15 nM DPP IV inhibitor displays a more than 3000-fold selectivity over DPP8 DPP9, FAP and DPP-II. The in vivo effects of DBPR108, including inhibition of plasma DPP-IV activity and

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suppression of blood glucose elevation, were also demonstrated. DBPR108 is a potent, selective, long-acting and safe DPP-IV inhibitor as a potential treatment of type 2 diabetes mellitus.

References:

[1]. Yeh TK, et al. (2S,4S)-1-[2-(1,1-dimethyl-3-oxo-3-pyrrolidin-1-yl-propylamino)acetyl]-4-fluoro-pyrrolidine-2-carbonitrile: a potent, selective, and orally bioavailable dipeptide-derived inhibitor of dipeptidyl peptidase IV. *Bioorg Med Chem Lett*. 2010 Jun

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