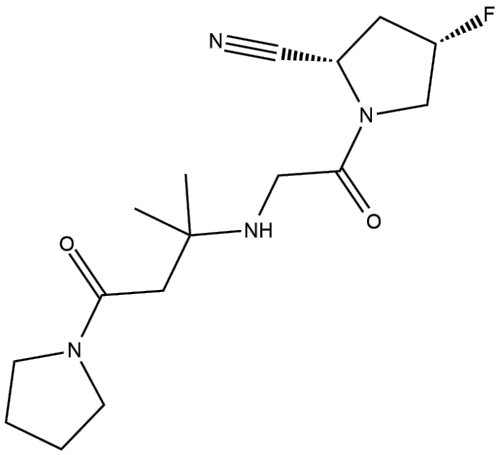
Product Data Sheet

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 DDP8 and DPP9.IC50 value: 15 nM [1]Target: DPP4 inhibitorDBPR108 is an IC50=15 nM DPP IV inhibitor displays a more than 3000-fold selectivity over DPP8 DPP9, FAP and DPP-II. TThe 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 diabetesmellitus.

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

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

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