

Product Name : DBPR108

Synonyms : DBPR-108

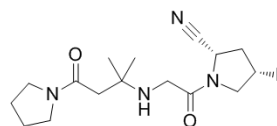
Cat No. : M10635

CAS Number : 1186426-66-3

Molecular Formula : C₁₆H₂₅FN₄O₂

Formula Weight : 324.39

Chemical Name : 2-Pyrrolidinecarbonitrile, 1-[2-[[1,1-dimethyl-3-oxo-3-(1-pyrrolidinyl)propyl]amino]acetyl]-4-fluoro-, (2S,4S)-



Description : DBPR108 is a potent, selective, orally bioavailable and long-acting inhibitor of DPP4 with IC₅₀ of 15 nM, >3,000-fold selectivity over DPP8, DPP9, FAP and DPP-II; exhibits excellent human plasma DPP-IV inhibition with IC₅₀ of 5 nM, suppresses blood glucose elevation in vivo, demonstrates potential treatment of type 2 diabetes mellitus. Diabetes Phase 1 Clinical

Pathway : Metabolic Enzyme/Protease

Target : DPP

Receptor : DPP

Solubility : 10 mM in DMSO

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

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Yeh TK, et al. Bioorg Med Chem Lett. 2010 Jun 15;20(12):3596-600.