

Vildagliptin, DPP4 inhibitor

Catalog	Unit
TBI2887-10MG	10 mg
TBI2887-50MG	50 mg

Product Details

Formal Name: (S)-1-[N-(3-Hydroxy-1-adamanty)glycyl]pyrrolidine-2-carbonitrile

Alternate Names: LAF237

Molecular Formula: C₁₇H₂₅N₃O₂

Formula Weight: 303.40

CAS Number: 274901-16-5

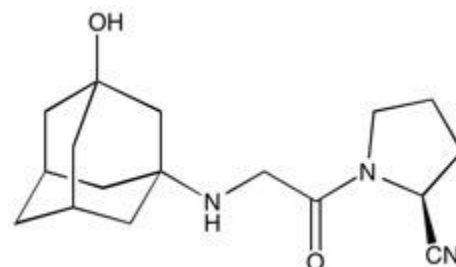
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to 45 mg/ml), in DMF (up to 20 mg/ml), or in Ethanol (up to 20 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

DPP4 inhibitor

Functions

A potent inhibitor of dipeptidyl peptidase IV (DPP IV), an enzyme that cleaves glucagon-like peptide 1 (GLP-1). Delaying the degradation of GLP-1 extends the action of insulin and suppressing the release of glucagon which results in reduction in elevated blood glucose levels (hyperglycemia). Clinically useful antidiabetic agent. Ameliorates cognitive deficits in streptozotocin-induced Alzheimers disease model. Displays protective effects on β -cells by inhibition of ER stress in a mouse model.

Application Procedures

First dissolved in DMSO (up to 45 mg/ml), in DMF (up to 20 mg/ml), or in Ethanol (up to 20 mg/ml), then diluted to aqueous buffer. Solutions in DMSO, DMF or Ethanol may be stored at -20°C for up to 3 months.

For research use only.