

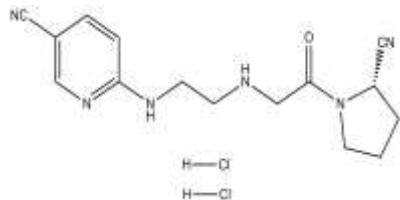
DPP IV Inhibitor, NVP DPP 728

ALTERNATE NAME: 6-[[2-[[2-(2S)-2-Cyano-1-pyrrolidinyl]-2-oxoethyl]amino]ethyl]amino-3-pyridinecarbononitrile Dihydrochloride

CATALOG #: 1964-1, 5

AMOUNT: 1 mg, 5 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₅H₁₈N₆O₂·2HCl

MOLECULAR WEIGHT: 371.27

CAS NUMBER: 247016-69-9

APPEARANCE: White solid

SOLUBILITY: DMSO (~100 mM) or EtOH (~ 100 mM)

PURITY: ≥98% by HPLC

STORAGE: Store at -20 °C. Protect from light

DESCRIPTION: A potent, selective, reversible, and slow binding dipeptidyl peptidase IV inhibitor (IC₅₀ = 14 nM). Displays >15,000 fold selectivity over DPP-II and a range of Proline-cleaving proteases. Displays anti-diabetic activity *in vivo*, improves glucose tolerance, increases glucagon-like peptide 1 (GLP-1) and insulin levels, and augments insulin secretion and GLUT-2 levels.

REFERENCE: Hughes, T.E., *et al.* (1999). *Biochemistry* **38**, 11597-11603.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

FOR RESEARCH USE ONLY! Not to be used on humans.

RELATED PRODUCTS:

- Dipeptidylpeptidase IV, Human Plasma (**Cat. No. 4709-10**)
- Dipeptidylpeptidase IV Inhibitor, K 579 (**Cat. No. 1963-1, 5**)
- Sitagliptin Phosphate Monohydrate (**Cat. No. 1757-100, 1G**)