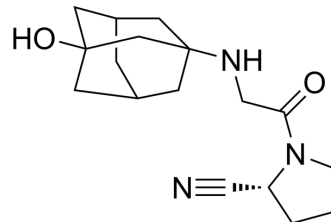


(2R)-Vildagliptin

Cat. No.:	HY-14291B
CAS No.:	1036959-27-9
Molecular Formula:	C ₁₇ H ₂₅ N ₃ O ₂
Molecular Weight:	303.4
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

(2R)-Vildagliptin is the isomer of Vildagliptin (HY-14291), and can be used as an experimental control. Vildagliptin (LAF237) is a potent, stable, selective dipeptidyl peptidase IV (DPP-IV) inhibitor with an IC₅₀ of 3.5 nM in human Caco-2 cells. Vildagliptin possesses excellent oral bioavailability and potent antihyperglycemic activity^[1].

REFERENCES

- [1]. Wu YJ, et al. Dipeptidyl peptidase-4 inhibitor, vildagliptin, inhibits pancreatic beta cell apoptosis in association with its effects suppressing endoplasmic reticulum stress in db/db mice. *Metabolism*. 2015 Feb;64(2):226-35.
- [2]. Villhauer EB, et al. 1-[[[3-hydroxy-1-adamantyl]amino]acetyl]-2-cyano-(S)-pyrrolidine: a potent, selective, and orally bioavailable dipeptidyl peptidase IV inhibitor with antihyperglycemic properties. *J Med Chem*. 2003 Jun 19;46(13):2774-89.

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

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