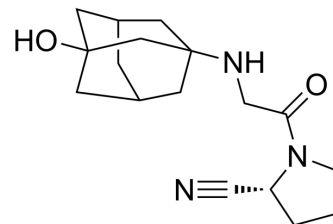


## (2R)-Vildagliptin

|                    |   |
|--------------------|---|
| Cat. No.:          | HY-14291B   |
| CAS No.:           | 1036959-27-9  |
| Molecular Formula: | C <sub>17</sub> H <sub>25</sub> N <sub>3</sub> O <sub>2</sub>                             |
| 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 inactive 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 IC<sub>50</sub> of 3.5 nM in human Caco-2 cells. Vildagliptin possesses excellent oral bioavailability and potent antihyperglycemic activity<sup>[1]</sup>.

### 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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