

DPP-4-IN-17

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	DPP-4-IN-17 is an orally active and selective inhibitor of dipeptidyl peptidase-4 (DPP-4) with an IC50 value of 0.12 nM. It increases the enzyme's Km value (75.73 $\mu$ M compared to the substrate alone at 27.18 $\mu$ M) and reduces catalytic efficiency. In Streptozotocin (STZ)/Nicotinamide (NA)-induced diabetic rats, DPP-4-IN-17 lowers blood glucose levels and reverses weight loss. This compound is useful for research in type 2 diabetes (T2DM).
Targets(IC50)	Proteasome
In vitro	DPP-4-IN-17 (Compound 8) functions as a competitive DPP-4 inhibitor, increasing the Km value from 27.18 $\mu$ M to 75.73 $\mu$ M, while also reducing catalytic efficiency.
In vivo	DPP-4-IN-17 (Compound 8), administered orally at a dose of 10-40 mg/kg once daily for 21 days, significantly reduces blood glucose levels and reverses weight loss in Streptozotocin (STZ) / Nicotinamide (NA) induced diabetic Wistar rats.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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