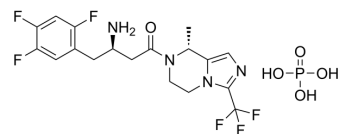


Cetagliptin

Cat. No.:	HY-170569
CAS No.:	2243737-33-7
Molecular Formula:	C ₁₈ H ₂₁ F ₆ N ₄ O ₅ P
Molecular Weight:	518.35
Target:	Dipeptidyl Peptidase; Cytochrome P450; P-glycoprotein
Pathway:	Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Cetagliptin is an orally active inhibitor for dipeptidyl peptidase 4 (DPP-4) and CYP2D6 (IC₅₀ of 6 μM). Cetagliptin is a substrate for P-glycoprotein. Cetagliptin reduces the GLP-1 degradation, maintains the level of postprandial blood sugar, and can be used in type 2 diabetes mellitus research^[1].

REFERENCES

- [1]. Zhou C, et al., Safety, tolerability, pharmacokinetics and pharmacokinetic-pharmacodynamic modeling of cetagliptin in patients with type 2 diabetes mellitus. *Front Endocrinol (Lausanne)*. 2024 Mar 11;15:1359407.
- [2]. Lu J, et al., In vitro study of the drug-drug interaction potential of cetagliptin and clinical study of pharmacokinetic interaction of cetagliptin and metformin in healthy volunteers. *Xenobiotica*. 2021 Oct;51(10):1122-1131.

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

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