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Zuschläge

- Mindermengenzuschlag
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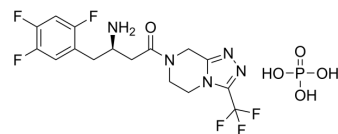
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Sitagliptin phosphate (Standard)

Cat. No.:	HY-13749AR
CAS No.:	654671-78-0
Molecular Formula:	C ₁₆ H ₁₈ F ₆ N ₅ O ₅ P
Molecular Weight:	505.31
Target:	Autophagy; Dipeptidyl Peptidase
Pathway:	Autophagy; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Sitagliptin (phosphate) (Standard) is the analytical standard of Sitagliptin (phosphate). This product is intended for research and analytical applications. Sitagliptin phosphate (MK-0431 phosphate) is a potent inhibitor of DPP4 with an IC ₅₀ of 19 nM in Caco-2 cell extracts ^[1] .
IC₅₀ & Target	IC50: 19 nM (DPP4, in Caco-2 cell extracts) ^[1]

REFERENCES

- [1]. Thomas, L., et al. (R)-8-(3-amino-piperidin-1-yl)-7-but-2-ynyl-3-methyl-1-(4-methyl-quinazolin-2-ylm ethyl)-3,7-dihydro-purine-2,6-dione (BI 1356), a novel xanthine-based dipeptidyl peptidase 4 inhibitor, has a superior potency and longer duration of acti
- [2]. Kim, S.J., et al., Dipeptidyl peptidase IV inhibition with MK0431 improves islet graft survival in diabetic NOD mice partially via T-cell modulation. *Diabetes*, 2009. 58(3): p. 641-51.
- [3]. Sangle, G.V., et al., Novel biological action of the dipeptidylpeptidase-IV inhibitor, sitagliptin, as a glucagon-like peptide-1 secretagogue. *Endocrinology*, 2012. 153(2): p. 564-73.
- [4]. Kim, S.J., et al., Inhibition of dipeptidyl peptidase IV with sitagliptin (MK0431) prolongs islet graft survival in streptozotocin-induced diabetic mice. *Diabetes*, 2008. 57(5): p. 1331-9.
- [5]. Beconi, M.G., et al. Disposition of the dipeptidyl peptidase 4 inhibitor sitagliptin in rats and dogs. *Drug Metab Dispos*, 2007. 35(4): p. 525-32.

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

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