# Data Sheet (Cat.No.T23358)

TargetMol
A DRUG SCREENING EXPERT

Sitagliptin (phosphate)

## Chemical Properties

| | |
|---|---|
| CAS No.: | 654671-78-0 |
| Formula: | C16H15F6N5O·H3PO4 |
| Molecular Weight: | 505.3 |
| Appearance: | N/A |
| Storage: | 0-4℃ for short term (days to weeks), or -20℃ for long term (months). |

## Biological Description

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|---|---|
| Description | Sitagliptin is a dipeptidyl peptidase-4 (DPP4) inhibitor. |
| In vitro | In vitro: Sitagliptin was a potent inhibitor for DPP-4 with an IC50 of 18 nM. Sitagliptin inhibited DPP-8 (IC50: 48 μM). Sitagliptin showed no effect on several related peptidases, including DPP-9, DPP-II, and aminopeptidase P [1]. |

## Solubility Information

| | |
|---|---|
| Solubility | DMSO: ≥24.4mg/mL<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 1.979 mL | 9.895 mL | 19.79 mL |
| 5 mM | 0.396 mL | 1.979 mL | 3.958 mL |
| 10 mM | 0.198 mL | 0.99 mL | 1.979 mL |
| 50 mM | 0.04 mL | 0.198 mL | 0.396 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Heltweg B, Gatbonton T, Schuler AD, et al. Antitumor activity of a small-molecule inhibitor of human silent information regulator 2 enzymes. Cancer Res. 2006 Apr 15;66(8):4368-77.
2. Laemmle A, Lechleiter A, Roh V, et al. Inhibition of SIRT1 impairs the accumulation and transcriptional activity of HIF-1α protein under hypoxic conditions. PLoS One. 2012;7(3):e33433.

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