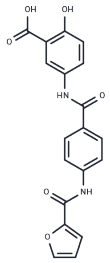
# Data Sheet (Cat.No.T24793)

SIRT6-IN-5

## Chemical Properties



CAS No. : 891002-11-2

Formula: C19H14N2O6

Molecular Weight: 366.32

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 | SIRT6-IN-5(SIRT6 inhibitor 5) is a potent and selective SIRT6 inhibitor with an IC50 value of 34 μM.SIRT6-IN-5 is immunosuppressive and chemo-sensitizing, increases H3K9 acetylation and glucose uptake in cultured cells, and reduces T-cell proliferation. |
| Targets(IC50) | Sirtuin |

## Solubility Information

| | |
|---|---|
| Solubility | DMSO: 55 mg/mL (150.14 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.7299 mL | 13.6493 mL | 27.2985 mL |
| 5 mM | 0.546 mL | 2.7299 mL | 5.4597 mL |
| 10 mM | 0.273 mL | 1.3649 mL | 2.7299 mL |
| 50 mM | 0.0546 mL | 0.273 mL | 0.546 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Damonte P, et al. SIRT6 inhibitors with salicylate-like structure show immunosuppressive and chemosensitizing effects. Bioorg Med Chem. 2017 Oct 15;25(20):5849-5858.
Wencel PL, et al. Inhibition of Poly(ADP-ribose) Polymerase-1 Enhances Gene Expression of Selected Sirtuins and APP Cleaving Enzymes in Amyloid Beta Cytotoxicity. Mol Neurobiol. 2017 Jul 12.
Shao J, et al. Autophagy induction by SIRT6 is involved in oxidative stress-induced neuronal damage. Protein Cell. 2016 Apr;7(4):281-90.
Kokkonen P, et al. Studying SIRT6 regulation using H3K56 based substrate and small molecules. Eur J Pharm Sci. 2014 Oct 15;63:71-6.



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