# Data Sheet (Cat.No.T9745)

TargetMol

## Elevenostat

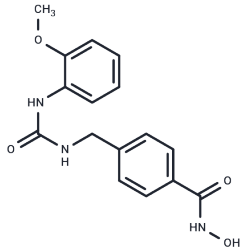
### Chemical Properties

CAS No. : 1454902-97-6

Formula: C16H17N3O4

Molecular Weight: 315.32

Storage: Store at low temperature
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 | Elevenostat is an HDAC11-selective inhibitor with an IC50 value of 0.235μM. |
| Targets(IC50) | Apoptosis,Caspase,HDAC |
| In vitro | Elevenostat induced cell death in MM cell lines[1]. |
| In vivo | Elevenostat produced similar anti-MM activity in vivo, improving survival among mice inoculated with 5TGM1 MM cells[1]. |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 250 mg/mL (792.85 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (15.86 mM),Sonication is recommended.<br>*Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.* |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 3.1714 mL | 15.8569 mL | 31.7138 mL |
| 5 mM | 0.6343 mL | 3.1714 mL | 6.3428 mL |
| 10 mM | 0.3171 mL | 1.5857 mL | 3.1714 mL |
| 50 mM | 0.0634 mL | 0.3171 mL | 0.6343 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

Mostofa A, et al. Plasma cell dependence on histone/protein deacetylase 11 reveals a therapeutic target in multiple myeloma. JCI Insight. 2021;6(24):e151713. Published 2021 Dec 22.
Huang J, et al. Histone/protein deacetylase 11 targeting promotes Foxp3+ Treg function. Sci Rep. 2017;7(1):8626. Published 2017 Aug 17.

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