# Data Sheet (Cat.No.T213015)

TargetMol

## LMDP10

### Chemical Properties

CAS No. : 2760446-25-9

Formula: C29H21FN4O3

Molecular Weight: 492.51

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 | LMDP10 is an orally active 3-aminoquinazoline derivative that activates the Keap1-Nrf2 pathway. It binds to Keap1, inhibiting the Keap1-Nrf2 interaction and subsequently activating the Nrf2 pathway. This leads to increased levels of Nrf2, SOD, and GSH, while reducing MDA and TNF-α levels. As a result, LMDP10 alleviates neurodegeneration and improves memory in Alzheimer's disease (AD) rat models. LMDP10 is applicable for Alzheimer's disease (AD) research. |
| In vivo | LMDP10 (administered orally at a dose of 5-50 mg/kg once daily for 10 days) significantly improves spatial memory in male SD rats with sporadic Alzheimer's disease (AD) induced by ICV-STZ. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.0304 mL | 10.1521 mL | 20.3042 mL |
| 5 mM | 0.4061 mL | 2.0304 mL | 4.0608 mL |
| 10 mM | 0.203 mL | 1.0152 mL | 2.0304 mL |
| 50 mM | 0.0406 mL | 0.203 mL | 0.4061 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.



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