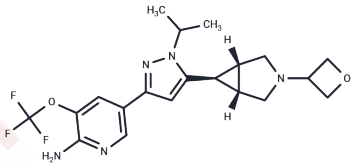
# Data Sheet (Cat.No.T11056)

TargetMol

DLK-IN-1

## Chemical Properties



CAS No. : 1620574-24-4

Formula: C20H24F3N5O2

Molecular Weight: 423.43

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 | DLK-IN-1 is a selective oral active inhibitor of bisleucine zipper kinase (DLK, MAP3K12) with Ki of 3 nM. DLK-IN-1 is active in the Alzheimer's disease model, retains excellent CNS permeability, and after multiple days of administration, its concentration exceeds the concentration required for DLK inhibition in the brain, so it has good tolerance Acceptability. |
| Targets(IC50) | MAPK,DNA Alkylation |

## Solubility Information

| | |
|---|---|
| Solubility | DMSO: 62.5 mg/mL (147.6 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.3617 mL | 11.8083 mL | 23.6167 mL |
| 5 mM | 0.4723 mL | 2.3617 mL | 4.7233 mL |
| 10 mM | 0.2362 mL | 1.1808 mL | 2.3617 mL |
| 50 mM | 0.0472 mL | 0.2362 mL | 0.4723 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

Patel S, et al. Selective Inhibitors of Dual Leucine Zipper Kinase (DLK, MAP3K12) with Activity in a Model of Alzheimer's Disease. J Med Chem. 2017 Oct 12;60(19):8083-8102.

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