

KH-259

## Chemical Properties

CAS No. :

Formula: C<sub>20</sub>H<sub>25</sub>N<sub>3</sub>O<sub>2</sub>

Molecular Weight: 339.43

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	KH-259 (compound 1) is a highly potent, selective, and CNS-penetrant HDAC6 inhibitor, with an IC <sub>50</sub> of 0.26 $\mu$ M, exerting antidepressant effects in mice by inhibiting HDAC6 within the brain and holding promise as a valuable tool for neurodegenerative diseases research [1].
Targets(IC <sub>50</sub> )	Others,HDAC
In vitro	KH-259 (compound 1) shows satisfactory metabolic stability in liver microsomes of both mice and humans [1].
In vivo	Administration of KH-259 (compound 1) (10 mg/kg, IP, once) significantly raises acetylated $\alpha$ -tubulin levels in mice brains without affecting acetylated histone H3K9 levels, suggesting its antidepressant effects are mediated through inhibiting HDAC6 in the brain [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9461 mL	14.7306 mL	29.4612 mL
5 mM	0.5892 mL	2.9461 mL	5.8922 mL
10 mM	0.2946 mL	1.4731 mL	2.9461 mL
50 mM	0.0589 mL	0.2946 mL	0.5892 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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