

## LSD1-IN-36

## Chemical Properties

CAS No. :

Formula: C<sub>22</sub>H<sub>25</sub>N<sub>3</sub>O<sub>6</sub>S

Molecular Weight: 459.52

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	LSD1-IN-36, an effective LSD1 inhibitor with an IC <sub>50</sub> value of 0.8 nM, induces cell apoptosis and arrests the cell cycle. This compound also exhibits antitumor activity.
Targets(IC <sub>50</sub> )	Apoptosis,Histone Demethylase
In vitro	LSD1-IN-36 (compound 10e) exhibits significant inhibitory effects in various human tumor cell lines, showing strong activity against HCT116, MCF-7, A549, and MDA-MB-231 cells with IC <sub>50</sub> values of 0.1 μM, 0.1 μM, 0.3 μM, and 0.8 μM, respectively. At concentrations ranging from 0.125 to 0.5 μM over 72 hours, LSD1-IN-36 significantly inhibits clonal formation in HCT116 cells, induces apoptosis, arrests the cell cycle, and increases the expression of H3K9me <sub>2</sub> , H3K9me <sub>1</sub> , H3K4me <sub>2</sub> , and H3K4me <sub>1</sub> in HCT116 cells.
In vivo	Administered intraperitoneally at a dose of 60 mg/kg daily for three weeks, LSD1-IN-36 (compound 10e) demonstrated a significant tumor suppression rate in vivo.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1762 mL	10.8809 mL	21.7618 mL
5 mM	0.4352 mL	2.1762 mL	4.3524 mL
10 mM	0.2176 mL	1.0881 mL	2.1762 mL
50 mM	0.0435 mL	0.2176 mL	0.4352 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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