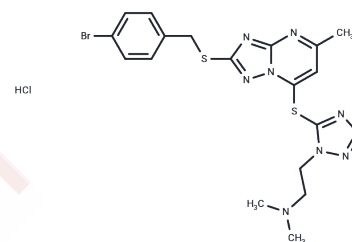


WS-384

## Chemical Properties

CAS No. : 2247544-03-0  
 Formula: C<sub>18</sub>H<sub>21</sub>BrClN<sub>9</sub>S<sub>2</sub>  
 Molecular Weight: 542.91  
 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	WS-384 is an orally active dual inhibitor of LSD1 and DCN1-UBC12 protein-protein interactions, with IC <sub>50</sub> values of 338.79 nM and 14.81 nM, respectively. It exhibits anticancer properties, causing cell cycle arrest, DNA damage, and inducing apoptosis (apoptosis). WS-384 can be applied in research on non-small cell lung cancer (NSCLC).
Targets(IC <sub>50</sub> )	Apoptosis,Histone Demethylase,E1/E2/E3 Enzyme,Caspase,DNA/RNA Synthesis
In vitro	WS-384, at concentrations of 1-32 μM for 24-72 hours, effectively inhibits the growth of A549 and H1975 cells in a time- and dose-dependent manner, with an IC <sub>50</sub> ranging from 2.15 to 6.67 μM, demonstrating its anticancer properties. At 1-8 μM for 48 hours, WS-384 increases the expression levels of p21 gene and protein in A549 and H1975 cells by inhibiting the ubiquitin-like modification of cullin 1 and reducing H3K4 demethylation at the CDKN1A promoter, leading to G2/M cell cycle arrest and apoptosis. Additionally, WS-384 (1-8 μM; 48 h) can cause DNA damage.
In vivo	WS-384, administered orally at a dose of 25-50 mg/kg once daily for 36 days, effectively inhibits the growth of NSCLC tumors in a xenograft model using BALB/c nude mice, while maintaining low toxicity.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8419 mL	9.2096 mL	18.4193 mL
5 mM	0.3684 mL	1.8419 mL	3.6839 mL
10 mM	0.1842 mL	0.921 mL	1.8419 mL
50 mM	0.0368 mL	0.1842 mL	0.3684 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**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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