

DS03090629

## Chemical Properties

CAS No. :

Formula: C<sub>25</sub>H<sub>26</sub>ClN<sub>5</sub>O<sub>2</sub>

Molecular Weight: 463.96

Storage: Keep away from direct sunlight, Keep away from moisture, Store at low temperature

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	DS03090629, an orally active MEK inhibitor, functions by competitively inhibiting MEK activity in the presence of ATP. This compound demonstrates strong binding affinity to both MEK and phosphorylated MEK, with dissociation constants (K <sub>d</sub> ) of 0.11 and 0.15 nM, respectively. It has shown efficacy in suppressing the proliferation of melanoma cell lines that overexpress BRAF mutations, achieving IC <sub>50</sub> values of 74.3 and 97.8 nM for BRAF V600E and MEK1 F53L transfected A375 cells, respectively. DS03090629 is thus considered promising for anti-melanoma therapies.
Targets(IC <sub>50</sub> )	MEK

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1554 mL	10.7768 mL	21.5536 mL
5 mM	0.4311 mL	2.1554 mL	4.3107 mL
10 mM	0.2155 mL	1.0777 mL	2.1554 mL
50 mM	0.0431 mL	0.2155 mL	0.4311 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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