

D561-0775

## Chemical Properties

CAS No. :	1112400-30-2
Formula:	C <sub>21</sub> H <sub>15</sub> BrN <sub>4</sub> O <sub>3</sub>
Molecular Weight:	451.27
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	D561-0775 is a direct AMPK agonist that demonstrates potential antitumor activity through induction of apoptosis, cell-cycle arrest, and suppression of glycolysis and cholesterol synthesis following AMPK activation in gefitinib-resistant H1975 cells. D561-0775 is relevant for investigations involving AMPK-mediated metabolic regulation, cancer cell metabolism, and resistance-associated signaling pathways.
Targets(IC50)	AMPK
In vitro	D561-0775 (0, 5, 10, 20, 40, 80 μM, 48h) exhibits significant inhibitory effect on gefitinib-resistant NSCLC cell lines (H1975, H820 and H1299) using MTT assay, with IC50 value of 56.82 μM, 61.43 μM and 63.27 μM, respectively[1]. D561-0775 (0, 5, 10, 20, 40, 80 μM, 48h) induces apoptosis and G2 phase arrested at 20 μM and 40 μM in H1975 cells detected by flow cytometry analysis[1]. D561-0775 (20 μM, 48h) suppresses glycolysis and cholesterol synthesis in H1975 cells [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.216 mL	11.0798 mL	22.1597 mL
5 mM	0.4432 mL	2.216 mL	4.4319 mL
10 mM	0.2216 mL	1.108 mL	2.216 mL
50 mM	0.0443 mL	0.2216 mL	0.4432 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

Chen X, et al. Novel direct AMPK activator suppresses non-small cell lung cancer through inhibition of lipid metabolism. *Oncotarget*. 2017 Oct 9;8(56):96089-96102.

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