

STAT3-IN-31

Chemical Properties

CAS No. :

Formula: C₁₆H₁₅N₃O₃

Molecular Weight: 301.36

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	STAT3-IN-31 (compound K2071), derived from STATtic, acts as an inhibitor of both STAT3 and mitotic processes. This compound interrupts mitotic progression and impacts the formation of the mitotic spindle. Additionally, STAT3-IN-31 hampers migration in glioblastoma cells, suppresses cellular proliferation within tumor spheroids, induces senescence in glioblastoma, and inhibits the growth of Temozolomide-resistant cells while reducing the secretion of the pro-inflammatory cytokine monocyte chemoattractant protein (MCP-1).
Targets(IC50)	STAT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3183 mL	16.5915 mL	33.1829 mL
5 mM	0.6637 mL	3.3183 mL	6.6366 mL
10 mM	0.3318 mL	1.6591 mL	3.3183 mL
50 mM	0.0664 mL	0.3318 mL	0.6637 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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