

AP-1

Chemical Properties

CAS No. :

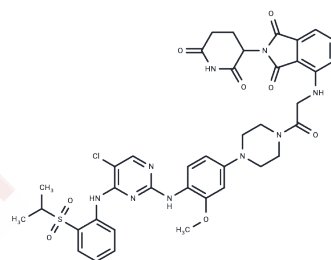
Formula: C39H40ClN9O8S

Molecular Weight: 830.31

Keep away from direct sunlight

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	AP-1, a miniaturized proteolysis-targeting chimera (PROTAC) incorporating an anaplastic lymphoma kinase (ALK) ligand connected to (±)-thalidomide via an ultrashort linker, effectively degrades ALK fusion proteins such as NPM-ALK in Karpas-299 cells and EML4-ALK and ALKF1174L in SN-N-SH and NCI H3122 cells, respectively. Concentrations ranging from 10 to 300 nM are sufficient for its action, which is hindered by the proteasome inhibitor MG-132. Demonstrating selectivity, AP-1 exhibits cytotoxicity towards ALK-dependent Karpas-299 cells with an IC ₅₀ value of 0.1265 nM, while showing significantly less toxicity to non-ALK-dependent THP-1 cells (IC ₅₀ = 2,704 nM). Furthermore, it effectively reduces tumor volume in NCI H3122 mouse xenograft models at doses of 25, 50, and 100 mg/kg.
Targets(IC ₅₀)	Others

Solubility Information

Solubility	DMF: 30 mg/mL (36.13 mM), Sonication is recommended. DMSO: 30 mg/mL (36.13 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2044 mL	6.0218 mL	12.0437 mL
5 mM	0.2409 mL	1.2044 mL	2.4087 mL
10 mM	0.1204 mL	0.6022 mL	1.2044 mL
50 mM	0.0241 mL	0.1204 mL	0.2409 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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