

Tubulin/MMP-IN-3

Chemical Properties

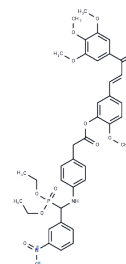
CAS No. :

Formula: C₃₈H₄₁N₂O₁₂P

Molecular Weight: 748.712

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 | Tubulin/MMP-IN-3 (Compound 15j) is a dual inhibitor of tubulin polymerization and MMP, effectively inhibiting MMP-2 and MMP-9 with IC ₅₀ values of 21.13 μM and 19.24 μM, respectively. It disrupts the NF-κB signaling pathway, leading to mitochondrial dysfunction and mitochondrial-dependent apoptosis. Tubulin/MMP-IN-3 shows antiproliferative activity in various cancer cells by causing cell cycle arrest at the G ₂ /M phase and demonstrates antitumor effects in mouse models. |
| Targets(IC ₅₀) | Apoptosis, MMP, NF-κB, Microtubule Associated |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.3356 mL | 6.6782 mL | 13.3563 mL |
| 5 mM | 0.2671 mL | 1.3356 mL | 2.6713 mL |
| 10 mM | 0.1336 mL | 0.6678 mL | 1.3356 mL |
| 50 mM | 0.0267 mL | 0.1336 mL | 0.2671 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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