

Tubulin inhibitor 36

Chemical Properties

CAS No. :

Formula: C₁₆H₁₃ClN₆S

Molecular Weight: 356.83

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 Inhibitor 36 (Compound 10) serves as a potent novel inhibitor of tubulin polymerization, which consequently induces apoptosis in glioblastoma cells, reflected by an IC ₅₀ value of 1.5±0.1 μM. Exhibiting significant anti-mitotic activity, this compound demonstrates anti-tumor potential, particularly useful in glioblastoma multiforme (GBM) research [1].
Targets(IC ₅₀)	Others, Microtubule Associated
In vitro	Tubulin inhibitor 36 (Compound 10) exhibits antiproliferative activity against various human tumor cell lines with IC ₅₀ values of 0.039, 0.038, 0.022, 0.025, 0.037, 0.040, and 0.059 μM for HeLa, MCF7, U87 MG, T98G, HepG2, HCT8, and HT-29 cells, respectively [1]. Additionally, at 100 nM concentration over 24, 48, and 72 hours, it arrests mitosis and induces apoptosis in HeLa, MCF7, and U87 MG cells [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8025 mL	14.0123 mL	28.0245 mL
5 mM	0.5605 mL	2.8025 mL	5.6049 mL
10 mM	0.2802 mL	1.4012 mL	2.8025 mL
50 mM	0.056 mL	0.2802 mL	0.5605 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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Tel: 781-999-4286

E_mail: info@targetmol.com

Address: 34 Washington Street, Wellesley Hills, MA 02481