Data Sheet (Cat.No.T209173)

TargetMol

Tubulin inhibitor 40

Chemical Properties

CAS No. :

Formula: C19H20N2O5

Molecular Weight:

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 40 (compound 45) is a tubulin inhibitor with an IC50 value of 1.2 μM. It exhibits selective cytotoxicity against cancer cells and possesses antitumor activity.
Targets(IC50)	Microtubule Associated
In vitro	Tubulin inhibitor 40 exhibits cytotoxic effects on A549, VA13, MCF7, and HEK293T cell lines with IC 50 values of 0.005 μM, 0.008 μM, 0.009 μM, and 0.008 μM, respectively. It impedes tubulin polymerization with an IC 50 of 1.2 μM. Additionally, Tubulin inhibitor 40 (1-25 μM, 24 h) induces changes in cell morphology and tubulin polymerization in A549 cells.
In vivo	Tubulin inhibitor 40 (administered intravenously at 20 mg/kg for 5 days) demonstrates antitumor activity.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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