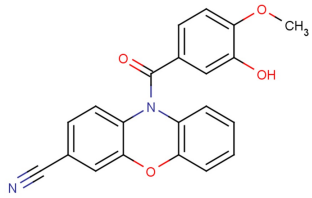
Data Sheet (Cat.No.T13225)

TargetMol
A DRUG SCREENING EXPERT

Tubulin inhibitor 7

Chemical Properties



CAS No.:	1309925-41-4
Formula:	C21H14N2O4
Molecular Weight:	358.35
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Tubulin inhibitor 7 is an inhibitor of tubulin and a potent inhibitor of multiple cancer cell lines (tubulin polymerization (IC50: 0.52 μM), K562 cell growth (IC50: 11 nM)).
Targets(IC_{50})	tubulin polymerization: 0.52 μM
In vitro	Tubulin inhibitor 7 shows excellent antiproliferative potencies (IC50s of 40, 24, 16, 6, 29, and 16 nM for NCIH460, SKOV3, BT549, 451LU, SW480, and DLD-1 tumor cell lines, respectively).

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.791 mL	13.953 mL	27.906 mL
5 mM	0.558 mL	2.791 mL	5.581 mL
10 mM	0.279 mL	1.395 mL	2.791 mL
50 mM	0.056 mL	0.279 mL	0.558 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Prinz H, et al. N-benzoylated phenoxazines and phenothiazines: synthesis, antiproliferative activity, and inhibition of tubulin polymerization. J Med Chem. 2011 Jun 23;54(12):4247-63.

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