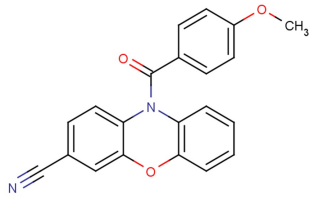
Data Sheet (Cat.No.T13226)

TargetMol
A DRUG SCREENING EXPERT

Tubulin inhibitor 8

Chemical Properties



CAS No.:	1309925-39-0
Formula:	C21H14N2O3
Molecular Weight:	342.35
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Tubulin inhibitor 8 is an inhibitor of tubulin and multiple cancer cell lines (tubulin polymerization with an IC50 of 0.73 μM, K562 cell growth with an IC50 of 14 nM).
Targets(IC_{50})	tubulin polymerization: 0.73 μM
In vitro	Tubulin inhibitor 8 shows excellent antiproliferative potencies (IC50s of 15, 6, 8, 2, 8, 6, and 9 nM for NCIH460, SKOV3, BT549, 451LU, SW480, COLO-205, 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	2.921 mL	14.605 mL	29.21 mL
5 mM	0.584 mL	2.921 mL	5.842 mL
10 mM	0.292 mL	1.46 mL	2.921 mL
50 mM	0.058 mL	0.292 mL	0.584 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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