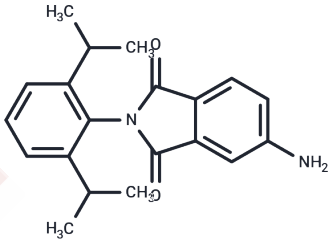
Data Sheet (Cat.No.T9083)

TargetMol

TC11

Chemical Properties



CAS No. : 100823-03-8

Formula: C20H22N2O2

Molecular Weight: 322.4

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	TC11 (1H-Isoindole-1,3(2H)-dione, 5-amino-2-[2,6-bis(1-methylethyl)phenyl]-TC11) is a potent inhibitor of tumor cell proliferation and an inducer of apoptosis via activation of caspase-3, 8 and 9.
Targets(IC50)	Bcl-2 Family,Caspase,CDK
In vivo	TC11 shows in vivo activity against multiple myeloma cell line KMS34 tumor xenografts in ICR/SCID mice. TC11 induces disruption of tubulin polymerization leading to mitotic arrest and promotes degradation of anti-apoptotic protein, MCL1, by sustained CDK1 activation.

Solubility Information

Solubility	DMSO: 45 mg/mL (139.58 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (6.2 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1017 mL	15.5087 mL	31.0174 mL
5 mM	0.6203 mL	3.1017 mL	6.2035 mL
10 mM	0.3102 mL	1.5509 mL	3.1017 mL
50 mM	0.062 mL	0.3102 mL	0.6203 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.

Reference

Di A , Mn A , Wm A , et al. A phenylphthalimide derivative, TC11, induces apoptosis by degrading MCL1 in multiple myeloma cells - ScienceDirect[J]. Biochemical and Biophysical Research Communications, 2020, 521(1):252-258.