

5HPP-33

Chemical Properties

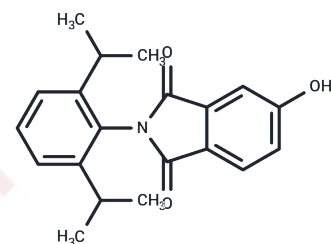
CAS No. : 105624-86-0

Formula: C₂₀H₂₁NO₃

Molecular Weight: 323.39

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	5HPP-33 is an microtubule-stabilizer with the properties of antiproliferative and antimitotic.
Targets(IC50)	Apoptosis,Others,Microtubule Associated

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0922 mL	15.4612 mL	30.9224 mL
5 mM	0.6184 mL	3.0922 mL	6.1845 mL
10 mM	0.3092 mL	1.5461 mL	3.0922 mL
50 mM	0.0618 mL	0.3092 mL	0.6184 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

Ellis-Hutchings RG, Settivari RS, McCoy AT, Kleinstreuer N, Franzosa J, Knudsen TB, Carney EW. Embryonic vascular disruption adverse outcomes: Linking high throughput signaling signatures with functional consequences. *Reprod Toxicol.* 2017 Jun;70:82-96. doi: 10.1016/j.reprotox.2017.05.005. Epub 2017 May 17. PubMed PMID: 28527947.

Ellis-Hutchings RG, Settivari RS, McCoy AT, Kleinstreuer N, Franzosa J, Knudsen TB, Carney EW. Embryonic vascular disruption adverse outcomes: Linking high-throughput signaling signatures with functional consequences. *Reprod Toxicol.* 2017 Apr 13;71:16-31. doi: 10.1016/j.reprotox.2017.04.003. [Epub ahead of print] PubMed PMID: 28414088.

Rashid A, Kuppa A, Kunwar A, Panda D. Thalidomide (5HPP-33) suppresses microtubule dynamics and depolymerizes the microtubule network by binding at the vinblastine binding site on tubulin. *Biochemistry.* 2015 Mar 31;54(12):2149-59. doi: 10.1021/bi501429j. Epub 2015 Mar 17. PubMed PMID: 25747795.

Pandit B, Hu Z, Chettiar SN, Zink J, Xiao Z, Etter JP, Bhasin D, Li PK. Structure-activity relationship studies of thalidomide analogs with a taxol-like mode of action. *Bioorg Med Chem Lett.* 2013 Dec 15;23(24):6902-4. doi: 10.1016/j.bmcl.2013.09.084. Epub 2013 Oct 4. PubMed PMID: 24169233.

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