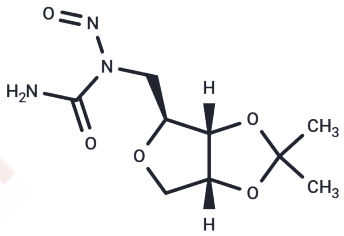
Data Sheet (Cat.No.T26709)

TargetMol

Azadirone

Chemical Properties



CAS No. : 30002-86-9

Formula: C9H15N3O5

Molecular Weight: 245.23

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	Azadirone is a limonoid tetranortriterpene. Azadirone can sensitize cancer cells to tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) through ROS-ERK-CHOP-mediated up-regulation of DR4 and DR5 signaling, down-regulation of cell survival proteins, and up-regulation of proapoptotic proteins.
Targets(IC50)	Bcl-2 Family,Others,Parasite,TNF

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0778 mL	20.389 mL	40.778 mL
5 mM	0.8156 mL	4.0778 mL	8.1556 mL
10 mM	0.4078 mL	2.0389 mL	4.0778 mL
50 mM	0.0816 mL	0.4078 mL	0.8156 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

Akihisa T, Nishimoto Y, Ogihara E, Matsumoto M, Zhang J, Abe M. Nitric Oxide Production-Inhibitory Activity of Limonoids from Azadirachta indica and Melia azedarach. Chem Biodivers. 2017 Jun;14(6). doi: 10.1002/cbdv.201600468. Epub 2017 May 23. PubMed PMID: 28145090.

Akihisa T, Horiuchi M, Matsumoto M, Ogihara E, Ishii K, Zhang J. Melanogenesis-Inhibitory Activities of Isomeric C-seco Limonoids and Deesterified Limonoids. Chem Biodivers. 2016 Oct;13(10):1410-1421. doi: 10.1002/cbdv.201600100. PubMed PMID: 27450797.

Kushwaha P, Khedgikar V, Haldar S, Gautam J, Mulani FA, Thulasiram HV, Trivedi R. Azadirachta indica triterpenoids promote osteoblast differentiation and mineralization in vitro and in vivo. Bioorg Med Chem Lett. 2016 Aug 1;26(15):3719-24. doi: 10.1016/j.bmcl.2016.05.076. Epub 2016 May 27. PubMed PMID: 27317644.

Gupta SC, Francis SK, Nair MS, Mo YY, Aggarwal BB. Azadirone, a limonoid tetranortriterpene, induces death receptors and sensitizes human cancer cells to tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) through a p53 protein-independent mechanism: evidence for the role of the ROS-ERK-CHOP-death receptor pathway. J Biol Chem. 2013 Nov 8;288(45):32343-56. doi: 10.1074/jbc.M113.455188. Epub 2013 Sep 27. PubMed PMID: 24078627; PubMed Central PMCID: PMC3820870.