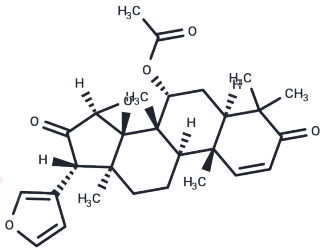
Data Sheet (Cat.No.TN6730)

TargetMol

Epoxyazadiradione

Chemical Properties



CAS No. : 18385-59-6

Formula: C28H34O6

Molecular Weight: 466.57

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	Epoxyazadiradione is an extract from Neem (Azadirachta indica) plant and may induce mitochondrial apoptosis and inhibition of NF-kB in human cervical cancer cells.
Targets(IC50)	NF-κB,Parasite
In vitro	Epoxyazadiradione exhibits most potent anti-cancer activity in both TNBC and ER+ breast cancer cells.?Epoxyazadiradione induces apoptosis and inhibits PI3K/Akt-mediated mitochondrial potential, cell viability, migration and angiogenesis.?It also inhibits the expression of pro-angiogenic and pro-metastatic genes such as Cox2, OPN, VEGF and MMP-9 in these cells.?Furthermore, epoxyazadiradione attenuates PI3K/Akt-mediated AP-1 activation.Epoxyazadiradione suppresses breast tumor growth and angiogenesis in orthotopic NOD/SCID mice model.

Solubility Information

Solubility	DMSO: 60 mg/mL (128.6 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.14 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	2.1433 mL	10.7165 mL	21.433 mL
5 mM	0.4287 mL	2.1433 mL	4.2866 mL
10 mM	0.2143 mL	1.0717 mL	2.1433 mL
50 mM	0.0429 mL	0.2143 mL	0.4287 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

Kumar D , Haldar S , Gorain M , et al. Epoxyazadiradione suppresses breast tumor growth through mitochondrial depolarization and caspase-dependent apoptosis by targeting PI3K/Akt pathway[J]. Bmc Cancer, 2018, 18(1).