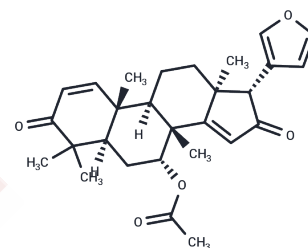


## Azadiradione

## Chemical Properties

CAS No. :	26241-51-0
Formula:	C <sub>28</sub> H <sub>34</sub> O <sub>5</sub>
Molecular Weight:	450.57
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	Azadiradione (AZD) (AZD) from the methanolic extract of seeds of Azadirachta indica
Targets(IC50)	Others,HSP
In vitro	Azadiradione (AZD) ameliorates toxicity due to protein aggregation in cell and fly models of polyglutamine expansion diseases to a great extent. All these effects are correlated with activation of HSF1 function and expression of its target protein chaperone genes. Notably, HSF1 activation by AZD is independent of cellular HSP90 or proteasome function. Furthermore, we show that AZD directly interacts with purified human HSF1 with high specificity, and facilitates binding of HSF1 to its recognition sequence with higher affinity. These unique findings qualify AZD as an ideal lead molecule for consideration for drug development against NDs that affect millions worldwide[1].

## Solubility Information

Solubility	DMSO: 55 mg/mL (122.07 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.2194 mL	11.0971 mL	22.1941 mL
5 mM	0.4439 mL	2.2194 mL	4.4388 mL
10 mM	0.2219 mL	1.1097 mL	2.2194 mL
50 mM	0.0444 mL	0.2219 mL	0.4439 mL

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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

Nelson V K , Ali A , Dutta N , et al. Azadiradione ameliorates polyglutamine expansion disease in Drosophila by potentiating DNA binding activity of heat shock factor 1[J]. *Oncotarget*, 2016, 7(48):78281-78296.

Singh, Kumar B , Vatsa, et al. Azadiradione Restores Protein Quality Control and Ameliorates the Disease Pathogenesis in a Mouse Model of Huntington's Disease[J]. *Molecular Neurobiology*, 2018.

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