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## Datasheet for ABIN1027731 Geldanamycin

1 Image

2 Publications



## Overview

Quantity:	1 mg
Application:	Inhibition (Inh)
Product Details	
Purpose:	Hsp90 inhibitor
Specificity:	Geldanamycin is a benzoquinoid ansamycin produced by Streptomyces hygroscopicus. It binds
	specifically to heat shock protein HSP90 and downregulates target proteins including tyrosine
	kinases, steroid receptors, transcription factors and cell cycle regulatory kinases. It induces the
	inactivation, destabilization and eventual degradation of HIF-1alpha. This is specifically a novel
	geldanamycin fluorescent probe that may be used in a fluorescence polarization assay for
	Hsp90 inhibitors. May also be used for detection of cell surface Hsp90. Other geldanamycin
	fluorophores (BODPY) have been reported and used in FP HTS assays.
Characteristics:	Hsp90 inhibitor.
Purification:	Produced by fermentation

Target Details	

Molecular Weight:

Purity:

Formula:

Solubility:

Chemical Name:

560.6

>95 %

C29H40N2O9

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(4E,6Z,8S,9S,10E,12S,13R,14S,16R)-13-hydroxy-8,14,19-trimethoxy-4,10,12,16-tetramethyl-

3,20,22-trioxo-2-azabicyclo[16.3.1] docosa-1(21),4,6,10,18-pentaen-9-yl carbamate

Slightly soluble in methanol, chloroform or DMSO (10 mg/ml); insoluble in water

CAS-No:	30562-34-6
Application Details	
Comment:	Source: Produced by fermentation.
	Appearance: Yellow Solid
Restrictions:	For Research Use only
Handling	
Format:	Solid
Precaution of Use:	Classification: Harmful. May be harmful if inhaled, swallowed or absorbed through skin. Safety
	Phrases: S22 - Do not breathe dust S24/25 - Avoid contact with skin and eyes S36/37/39 - Wear
	suitable protective clothing, gloves and eye/face protection Risk Phrases: R68- Possible risk of
	irreversible effects
Handling Advice:	Classification: Harmful. May be harmful if inhaled, swallowed or absorbed through skin. Safety
	Phrases: S22 - Do not breathe dust S24/25 - Avoid contact with skin and eyes S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection Risk Phrases: R68- Possible risk of
	irreversible effects
Storage:	-20 °C
Publications	
Product cited in:	Cha, St Louis, Tradewell, Gentil, Minotti, Jaffer, Chen, Rubenstein, Durham: "A novel small
	molecule HSP90 inhibitor, NXD30001, differentially induces heat shock proteins in nervous
	tissue in culture and in vivo." in: Cell stress & chaperones, Vol. 19, Issue 3, pp. 421-35, (2014) (
	PubMed).
	Mori, Hitora, Nakamura, Yamagami, Horie, Nishimura, Yamamoto: "Hsp90 inhibitor induces
	autophagy and apoptosis in osteosarcoma cells." in: International journal of oncology, Vol. 46,
	Issue 1, pp. 47-54, (2014) (PubMed).

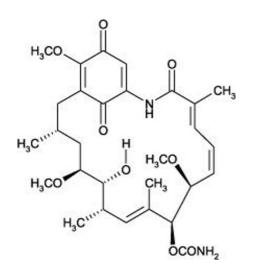


Image 1.

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