

Datasheet for ABIN1027734

## Geldanamycin- FITC



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### Overview

Quantity: 1 mg

Application: Inhibition (Inh)

### Product Details

Purpose: Hsp90 fluorescent probe

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.

Purity: >98 % (TLC), NMR (Conforms)

Chemical Name: (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

Formula: C55H63N5O13S

Solubility: May be dissolved in DMSO (>10 mg/ml)

### Target Details

Molecular Weight: 1034.2

CAS-No: 30562-34-6

## Application Details

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Comment: Source: Synthetic.  
Appearance: Purple Solid

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Restrictions: For Research Use only

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## Handling

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Format: Solid

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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

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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

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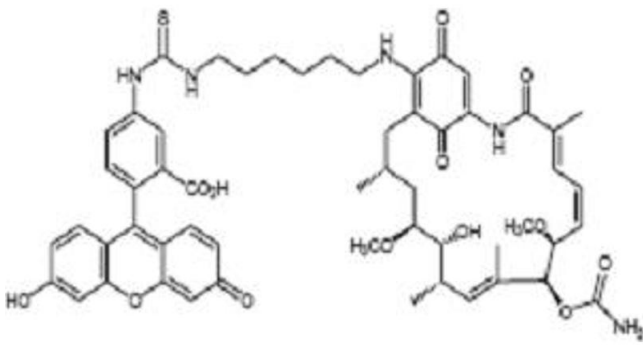
Storage: -20 °C

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## Publications

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Product cited in: Austin, Pettit, Magnolo, Sanvoisin, Chen, Wood, Freeman, Pengelly, Hughes: "Fragment screening using capillary electrophoresis (CEfrag) for hit identification of heat shock protein 90 ATPase inhibitors." in: **Journal of biomolecular screening**, Vol. 17, Issue 7, pp. 868-76, (2012) ([PubMed](#)).



**Image 1.** Geldanamycin FITC.