Geldanamycin-FITC

Cat. No.: HY-133705

CAS No.: 2969156-01-0

Molecular Formula: $C_{55}H_{63}N_5O_{13}S$

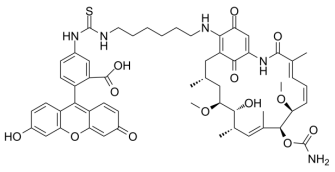
Molecular Weight: 1034.18

Target: HSP

Pathway: Cell Cycle/DNA Damage; Metabolic Enzyme/Protease

Storage: -20°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (24.17 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.9669 mL	4.8347 mL	9.6695 mL
	5 mM	0.1934 mL	0.9669 mL	1.9339 mL
	10 mM	0.0967 mL	0.4835 mL	0.9669 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Geldanamycin-FITC, a Geldanamycin fluorescent probe, can be used in a fluorescence polarization assay for HSP90 inhibitors. Geldanamycin-FITC also can be used for detection of cell surface HSP90[1][2][3].

IC_{50} & Target

HSP90

In Vitro

The HSP90 inhibitor Geldanamycin, when conjugated with FITC (GA–FITC) is cell-membrane impermeable, binding only cell surface HSP90 and inhibiting its functions but having no effect on cytosolic HSP90[3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kim J, et al. Development of a fluorescence polarization assay for the molecular chaperone Hsp90. J Biomol Screen. 2004;9(5):375-381.

[2]. Posfai D, et al. Identification of Hsp90 Inhibitors with Anti-Plasmodium Activity. Antimicrob Agents Chemother. 2018;62(4):e01799-17. Published 2018 Mar 27.

[3]. Imai T, et al. Heat shock protein 90 (HSP90) contributes to cytosolic translocation of extracellular antigen for cross-presentation by dendritic cells. Proc Natl Acad Sci U S A. 2011;108(39):16363-16368.

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