

Product Data Sheet

Product Name: Geldanamycin-FITC

Cat. No.: GC64795

Chemical Properties

Cas. No. 2969156-01-0

SMILES O=C(C(NCCCCCNC(NC1=CC=C(C(C(C=CC(O)=C2)=C2O3)=C4C3=CC(C=C4)=O)C(C(O)=O)=C1)=S)=C5C[C@@H](C)C[C@H](OC)[C@H](O)[C@@H](C)/C=C6C)C=C(NC/C(C)=C/C=C/[C@H](OC)[C@H]6OC(N)=O)=O)C5=O

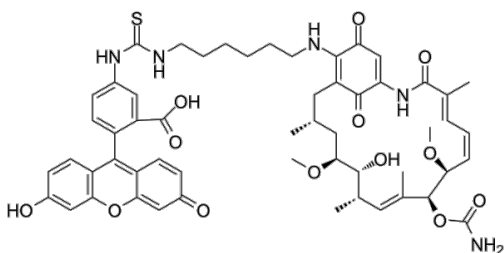
Formula $C_{55}H_{63}N_5O_{13}S$ M.Wt 1034.18

Solubility DMSO : 25 mg/mL (24.17 mM; Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO) Storage -20°C, protect from light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Geldanamycin-FITC, a Geldanamycin fluorescent probe, can be used in a fluorescence polarization

Caution: Product has not been fully validated for medical applications. For research use only.

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assay for HSP90 inhibitors. Geldanamycin-FITC also can be used for detection of cell surface HSP90[1][2][3].

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].

- [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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