

AR03025FC-N**Geldanamycin - FITC****Alternate names:**

Hsp90 inhibitor

Quantity:

1 mg

Background:

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 (1,2). It induces the inactivation, destabilization and eventual degradation of HIF-1 α (3).

This is specifically a novel geldanamycin fluorescent probe that may be used in a fluorescence polarization assay for Hsp90 inhibitors (4). May also be used for detection of cell surface Hsp90 (5). Other geldanamycin fluorophores (BODIPY) have been reported and used in FP HTS assays (6,7)

Source:

Synthetic

Format:**State:** Purple solid - FITC**Purity:** >98% 98 % (TLC: 10 % Methanol.methylene chloride; Rf=0.31)**Reconstitution:** Soluble in DMSO (>10mg/ml)**Description:**Formula: C₅₅H₆₃N₅O₁₃S**Molecular weight:** 1034.2 1034.2**Storage:**

Store the antibody (in aliquots) at -20 °C. Can be shipped at 2 - 8 °C.

Avoid repeated freezing and thawing.

Protect from light.

Shelf life: One year from despatch.

General Readings:

1. Whitesell L., et al. (1994) Proc. Natl. Acad. Sci. USA 91:8324.
2. Neckers L. (2002) Trends Mol. Med. 8: S55.
3. Mabeesh N.J., et al. (2002) Cancer Res. 62: 2478.
4. Llauger-Bufi L., et al. (2003) Bioorg. Med. Chem. Lett. 13: 3975.
5. Tsutsumi S., et al. (2007) Oncogene October 29 Epub
6. Kim J., et al. (2006) J. Biomol. Screen 9: 375.
7. Gooljarsingh L.T. et al.(2006) Proc. Natl. Acad. Sci. USA 103: 7625.

Pictures:

Figure 1: Structure of Geldanamycin-FITC

