OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AR03025PU-N

Geldanamycin Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Geldanamycin protein, 1 mg
Predicted MW:	560.6
Purity:	>95% > 95 %
Buffer:	Presentation State: Purified State: Yellow solid, produced by fermentation
Reconstitution Method:	Slightly soluble in methanol, chloroform or DMSO (10 mg/ml); insoluble in water.
Preparation:	Yellow solid, produced by fermentation
Protein Description:	Formula: C29H40N2O9
Storage:	Store the antibody (in aliquots) at -20 °C. Can be shipped at 2 - 8 °C. Avoid repeated freezing and thawing. Protect from light!
Stability:	Shelf life: One year from despatch.
Synonyms:	Hsp90 inhibitor
Summary:	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-1α (3). It is also an inhibitor of pp60src tyrosine kinase and of c-myc gene expression in murine lymphoblastoma cells. It inhibits the transforming activity of abl, erbB, fps, src, and yes (4). Geldanamycin is capable of destabilizing several oncogene and proto-oncogene products; it is a potent inhibitor of the nuclear hormone receptor family (5). It protects against α-synuclein toxicity to dopaminergic neurons in Drosophila, and destabilizes mutant p53 protein from a number of breast, leukemic, and prostate cell lines (6). Inhibits basal and hypoxia-induced expression of c-Jun (IC50=75nM) and abolishes hypoxia-induced increase in c-Jun N-terminal kinase (JNK) activity. Inhibits telomerase activity through inhibition of HSP90, a chaperone required for the assembly and activation of telomerase in human cells (6). It is ~10- fold more potent than herbimycin A.

View online »