

17-DMAG, Hsp90 Inhibitor

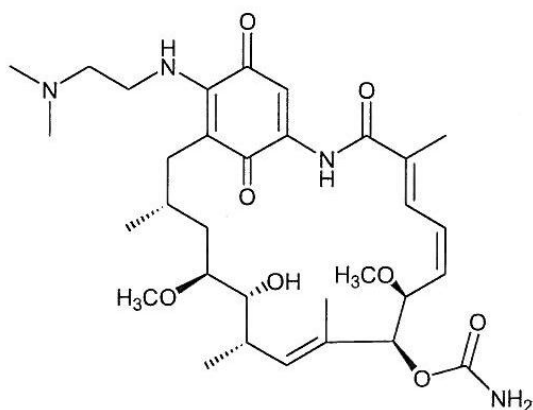
Product Specifications	
Catalog Number:	HPK-118
Application Notes:	This product is not sterile
Molecular Weight:	616.8 g/mol
Purity:	98% (TLC)
Format:	Purple Solid, soluble in ethanol (10 mg/mL) and DMSO (>25 mg/mL)
Storage: <i>Shipping conditions may differ from the recommended storage temperature</i>	Store as supplied at -20°C; store solutions at -20°C for up to 3 months
Related Products:	
HPK-119	17-GMB-APA-GA, Hsp90 Inhibitor
HPK-101	17-AAG, Hsp90 Inhibitor
HPK-102	Geldanamycin, Hsp90 Inhibitor
EKS-895	Hsp90α EIA Kit
SPP-770	Hsp90 Native Human Protein
H000010598-M01	AHA1, Activator of Hsp90 (AHS1) Monoclonal Antibody (1A2-A8)
SPA-835	Hsp90 Monoclonal Antibody (16F1)

Background:

17-Dimethylamino-ethylamino-17-demethoxy-geldanamycin (17-DMAG, NSC 707545) is a water-soluble geldanamycin analog belonging to the class of benzoquinones¹. Geldanamycin analogs such as 17-DMAG bind to the N-terminal domain ATP binding site of Hsp90, inhibiting Hsp90 chaperone activity^{2,3}. Hsp90 client proteins include kinases and several known oncogenes, making inhibition of Hsp90 an attractive chemotherapeutic strategy. Disruption of Hsp90 client protein folding leads to their ubiquitination and subsequent proteolytic degradation by the proteasome. 17-DMAG demonstrates greater potency and water solubility than other geldanamycin analogs such as 17-AAG, while demonstrating anti-tumor activity and offering excellent oral bioavailability⁴.

References:

1. Jez, J.M., *et al.* (2003) *Chem Biol.* **10**, 361-368.
2. Stebbins, C.E., *et al.* (1997) *Cell* **89**, 239-250.
3. Roe, S.M., *et al.* (1999) *J Med Chem.* **42**, 260-266.
4. Egorin, M.J., *et al.* (2002) *Cancer Chemother Pharmacol.* **49**, 7-19.



Structure

CAUTION!!! Avoid all forms of contact with this product by wearing appropriate protective clothing (gloves, mask, lab coat). Material Safety Data Sheet (MSDS) available on request.

FOR RESEARCH USE ONLY; NOT FOR THERAPEUTIC OR DIAGNOSTIC USE

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