



LKT Laboratories, Inc.

17-Dimethylaminoethylamino Demethoxygeldanamycin

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## Product Information

Product ID D4802

CAS No. 467214-20-6

### Chemical Name

Synonym 17-DMAG, Alvespimycin

Formula  $C_{32}H_{48}N_4O_8$

Formula Wt. 616.75

Melting Point 154°C

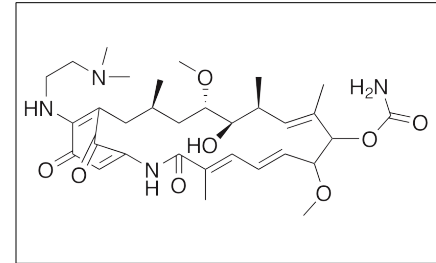
Purity ≥98%

Solubility DMSO, Ethanol

Store Temp 4°C

Ship Temp Ambient

**Description** 17-DMAG is an inhibitor of HSP90 that exhibits neuroprotective, anticancer chemotherapeutic, and antiviral activities. In animal models of Machado-Joseph disease, 17-DMAG increases levels of beclin-1 and LC3-11, inducing autophagy and improving motor dysfunction. In neuroblastoma cells, this compound exerts effects on anaplastic lymphoma kinase (ALK) and N-Myc, inducing cell cycle arrest and apoptosis. Additionally, 17-DMAG inhibits cell growth and induces apoptosis in adult T-cell leukemia (ATL) cells. In animal models with ATL xenografts, 17-DMAG inhibits metastasis and improves survival rates. 17-DMAG also prevents viral production by human T-lymphocytic virus type-1. In separate models, 17-DMAG decreases expression of conserved herpesvirus protein kinases and suppresses viral growth.



**Bulk quantities available upon request**

Product ID	Size
D4802	1 mg
D4802	5 mg
D4802	10 mg

**References** Silva-Fernandes A, Duarte-Silva S, Neves-Carvalho A, et al. Chronic Treatment with 17-DMAG Improves Balance and Coordination in A New Mouse Model of Machado-Joseph Disease. *Neurotherapeutics*. 2014 Jan 30. [Epub ahead of print]. PMID: 24477711.

Yi B, Yang J, Wang L. The growth inhibitory effect of 17-DMAG on ALK and MYCN double-positive neuroblastoma cell line. *Tumour Biol*. 2013 Nov 30. [Epub ahead of print]. PMID: 24293393.

Sun X, Bristol JA, Iwahori S, et al. Hsp90 inhibitor 17-DMAG decreases expression of conserved herpesvirus protein kinases and reduces virus production in Epstein-Barr virus-infected cells. *J Virol*. 2013 Sep;87(18):10126-38. PMID: 23843639.

Ikebe E, Kawaguchi A, Tezuka K, et al. Oral administration of an HSP90 inhibitor, 17-DMAG, intervenes tumor-cell infiltration into multiple organs and improves survival period for ATL model mice. *Blood Cancer J*. 2013 Aug 16;3:e132. PMID: 23955587.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.