



Catalog Number:	MC11089	Product Type:	Small Molecule
Bio-Activity:	HSP90 inhibitor	CAS #:	30562-34-6
Research Categories:	Cellular stress, cell death, ubiquitin/proteasome, cancer, infectious disease	Chemical Name:	9,13-Dihydroxy-8,14,19-trimethoxy-4,10,12,16-tetramethyl-2-azabicyclo[16.3.1]docosa-4,6,10,18,21-pentaene-3,20,22-trione,9-carbamate
Solubility:	Soluble in DMSO (up to 50 mg/ml).	Molecular Formula:	C ₂₉ H ₄₀ N ₂ O ₉
Purity:	> 98%	Molecular Weight:	560.7
Format:	Powder	Ship Temp:	Ambient
Storage:	-20°C		

Application Notes

Description/Data:

Inhibits HSP90 by binding to its ATP-binding domain ($K_d=1.2 \mu\text{M}$) and subsequently inhibits HSP90 client proteins [1]. Induces apoptosis in various cell types [2]. Cell permeable.

References:

- 1) Neckers et al., (1999), Geldanamycin as a potential anti-cancer agent: its molecular target and biochemical activity; Invest. New Drugs 17 361
- 2) Zang et al., (2006), HSP90 protects apoptotic cleavage of vimentin in geldanamycin-induced apoptosis; Mol. Cell. Biochem. 281 111

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