

## Geldanamycin

货号: G1085

储存条件: 粉末-20°C 可保存 3 年; 液体-80°C 可保存 12 月。

### 产品描述

HSP90 (heat shock protein 90) is a cellular ubiquitous molecular chaperone responsible for promoting the conformational mutation and stabilization of several client oncoproteins, including Met, B-Raf, p53, Akt, and Kit, function of which is required by tumor cells to maintain appropriate client protein expression necessary for proliferation and survival. Geldanamycin is the first class of HSP90 inhibitor with a Kd value of 1.2  $\mu\text{M}$  and  $\text{IC}_{50} < 2\mu\text{M}$  for ATPase activity of Hsp90. Treatment with geldanamycin at concentration of 0.5 $\mu\text{M}$  or 1 $\mu\text{M}$  for 24h reduced the protein level of AKT, as well as Raf-1 and its downstream p-MEK1/2, but not N-Ras or MEK1/2 in SH-SY5Y cells. Geldanamycin at concentration of 1 $\mu\text{M}$  for 48h could induce apoptosis in several neuroblastoma cell lines, including SH-SY5Y, SK-N-SH and LAN-1 cells. Intraperitoneal administration of geldanamycin (10 mg/kg) ameliorated ICH-induced increase of brain water content significantly, improved the neurological outcome and had a neuroprotective effect after ICH.

### 作用机制

Geldanamycin can bind to the N-terminal ATP/ADP-binding domain of Hsp90 and inhibit the inherent ATPase activity of Hsp90.

### 产品信息

CAS 号	30562-34-6	
分子式	C <sub>29</sub> H <sub>40</sub> N <sub>2</sub> O <sub>9</sub>	
分子量	560.64	
别名	NSC 122750	
溶解度	DMSO	35.0 mg/mL (62.4 mM) warming
	Water	Insoluble
	Ethanol	Insoluble

