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产品名称: Ubiquitin Isopeptidase Inhibitor I, G5
产品别名: NSC144303

生物活性:					
Description	Ubiquitin Isopeptidase Inhibitor I, G5 (NSC 144303) is an apoptosome-independent caspase and apoptosis activator with IC ₅₀ values of 1.76 and 1.6 μM in E1A and E1A/C9DN cells, respectively.				
IC ₅₀ & Target	IC50: 1.76 μM (E1A cells), 1.6 μM (E1A/C9DN cells)[1]				
In Vitro	G5 is capable of activating an apoptosome-independent apoptotic pathway. It targets the ubiquitinproteasome system by inhibiting the ubiquitin isopeptidases. G5 induces a rather unique apoptotic pathway, which includes a Bcl-2-dependent but apoptosome-independent mitochondrial pathway with upregulation of the BH3-only protein Noxa, stabilization of the inhibitor of apoptosis antagonist Smac, but also the involvement of the death receptor pathway. G5 is a potent apoptotic inducer showing IC ₅₀ s of 1.76 and 1.6 μM in E1A and E1A/C9DN cells, respectively[1].				
Solvent&Solubility	<i>In Vitro:</i> DMSO : ≥ 31 mg/mL (74.81 mM) * "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	2.4132 mL	12.0659 mL	24.1319 mL
		5 mM	0.4826 mL	2.4132 mL	4.8264 mL
		10 mM	0.2413 mL	1.2066 mL	2.4132 mL
	*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。 -80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。				
References	[1]. Aleo E, et al. Identification of new compounds that trigger apoptosome-independent caspase activation and apoptosis. Cancer Res. 2006 Sep 15;66(18):9235-44.				
实验参考:					
Cell Assay	Different drug concentrations are used to determine the dose-response profile and to calculate the IC50 value. Cells are incubated with the required concentrations of the 57 compounds. After 24 or 48 hours of incubation, cell death is evaluated bytr ypan blue staining[1].				
References	[1]. Aleo E, et al. Identification of new compounds that trigger apoptosome-independent caspase activation and apoptosis. Cancer Res. 2006 Sep 15;66(18):9235-44.				