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产品名称: 4-IBP

产品别名: 4-IBP

生物活性:

Description	4-IBP is a selective σ1 agonist with a high level of affinity for the σ1 receptor ($K_i = 1.7 \text{ nM}$) and a moderate affinity for the σ2 receptor ($K_i = 25.2 \text{ nM}$). IC50 value: 1.7 nM (K_i) Target: σ1 in vitro: 4-IBP is a σ1 receptor agonist, decreases the migration of human cancer cells, including glioblastoma cells. 4-IBP is used to investigate whether targeting the σ1 receptor could modify in vitro the migration rates of human cancer cells and increase the sensitivity of metastasizing human A549 NSCLC cells and infiltrating human glioblastoma cells to cytotoxic insults of either proapoptotic or proautophagic drugs.[1] in vivo: 4-IBP increases the antitumor effects of temozolomide and irinotecan in immunodeficient mice that were orthotopically grafted with invasive cancer cells.[1]																	
In Vitro: DMSO : 20 mg/mL (47.59 mM; Need ultrasonic) H ₂ O : < 0.1 mg/mL (insoluble)																		
Solvent&Solubility	<table border="1"><thead><tr><th rowspan="2">Preparing Stock Solutions</th><th>Solvent</th><th>Mass</th><th rowspan="2">Concentration</th><th rowspan="2">1 mg</th><th rowspan="2">5 mg</th><th rowspan="2">10 mg</th></tr><tr><th>1 mM</th><th>2.3793 mL</th></tr></thead><tbody><tr><th>5 mM</th><th>0.4759 mL</th><td>2.3793 mL</td><td>4.7586 mL</td></tr><tr><th>10 mM</th><th>0.2379 mL</th><td>1.1897 mL</td><td>2.3793 mL</td></tr></tbody></table> <p>*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。</p> <p>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。</p>	Preparing Stock Solutions	Solvent	Mass	Concentration	1 mg	5 mg	10 mg	1 mM	2.3793 mL	5 mM	0.4759 mL	2.3793 mL	4.7586 mL	10 mM	0.2379 mL	1.1897 mL	2.3793 mL
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References	[1]. Megalizzi V, et al. 4-IBP, a sigma1 receptor agonist, decreases the migration of human cancer cells, including glioblastoma cells, in vitro and sensitizes them in vitro and in vivo to cytotoxic insults of proapoptotic and proautophagic drugs. <i>Neoplasia</i> . 2																	