



上海源叶生物科技有限公司
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产品名称: **TYRPHOSTIN B46**
产品别名: **AG 555; Tyrphostin AG 555**

生物活性:

Description	AG 555, a potent antiretroviral drug, is a potent and selective inhibitor of EGFR and blocks Cdk2 activation[1][2].				
IC ₅₀ & Target	EGFR				
In Vitro	AG 555 (100 μM) inhibits both the early stages (integration process) and the late stages (viral protein synthesis) in the virus life cycle[1].				
	Tyrphostins AG555, which blocks Cdk2 activation, induces growth arrest of immortalized cells at G1-S and early S and is very effective in arresting the growth of EGFR overexpressor cells[2].				
	Tyrphostin AG 555 can selectively suppress BPV-1 transcription through MAP kinase pathway activation and binding of phosphorylated Jun/ATF-2 at a novel intragenic regulatory sequence[3].				
	Cell Proliferation Assay[1]				
	Cell Line:	NIH/3T3 uninfected cells and NIH/3T3-Mo-MuLV chronically infected cells.			
	Concentration:	100 μM.			
In Vitro	Incubation Time:	1 hour.			
	Result:	Inhibited Mo-MuLV proviral DNA integration.			
Solvent&Solubility	In Vitro:				
	DMSO : ≥ 100 mg/mL (310.21 mM)				
	* "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	3.1021 mL	15.5106 mL	31.0212 mL
		5 mM	0.6204 mL	3.1021 mL	6.2042 mL
		10 mM	0.3102 mL	1.5511 mL	3.1021 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。				
	In Vivo:				
请根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都请先按照 In Vitro 方式配制澄清的储备液，再依次添加助溶剂：					
——为保证实验结果的可靠性，澄清的储备液可以根据储存条件，适当保存；体内实验的工作液，建议您现用现配，当天使用； 以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比；如在配制过程中出现沉淀、析出现象，可以通过加热和/或超声的方式助溶					
1.请依序添加每种溶剂： 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline					
Solubility: ≥ 2.5 mg/mL (7.76 mM); Clear solution					
此方案可获得 ≥ 2.5 mg/mL (7.76 mM, 饱和度未知) 的澄清溶液。					
以 1 mL 工作液为例，取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 400 μL PEG300 中，混合均匀，向上述体系中加入 50 μL Tween-80，混合均匀；然后继续加入 450 μL 生理盐水定容至 1 mL。					



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	2.请依序添加每种溶剂: 10% DMSO→ 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.76 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (7.76 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例, 取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 20% 的 SBE-β-CD 生理盐水溶液中, 混合均匀。
References	[1]. Seri E Aflalo, et al. Tyrphostin AG-555 inhibits early and late stages of Moloney murine leukemia virus replication cycle. International Journal of Oncology. 1997. [2]. Nir Osheroov, et al. Tyrphostin AG494 blocks Cdk2 activation Nir Osheroov. FEBS Letters 410 (1997) 187-190. [3]. Sabine Baars, et al. Tyrphostin AG 555 Inhibits Bovine Papillomavirus Transcription by Changing the Ratio between E2 Transactivator/Repressor Function. Vol. 278, No. 39, Issue of September 26, pp. 37306–37313, 2003.