

产品名称: **BMH-21**

产品别名: **BMH-21**

生物活性:				
Description	BMH-21 is a small molecule DNA intercalator that binds ribosomal DNA and inhibits RNA polymerase I (Pol I) transcription; does not cause phosphorylation of H2AX. IC50 value: 10-90 nM(RPA195 IC50) [1] Target: RNA Pol I inhibitor in vitro: BMH-21 effects on the nucleolar stress response were independent of major DNA damage associated PI3-kinase pathways, ATM, ATR and DNA-PKcs. BMH-21 is a chemically unique DNA intercalator that has high bioactivity towards Pol I inhibition without activation or dependence of DNA damage stress [1].			
Solvent&Solubility	<i>In Vitro:</i> DMSO : 1 mg/mL (2.77 mM; Need ultrasonic)			
	<div>Preparing Stock Solutions</div>	<div>Solvent Mass Concentration</div>	1 mg	5 mg
		1 mM	2.7746 mL	13.8731 mL
		5 mM	---	---
		10 mM	---	---
	*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]. Colis L, et al. DNA intercalator BMH-21 inhibits RNA polymerase I independent of DNA damage response. <u>Oncotarget</u> . 2014 Jun 30;5(12):4361-9. [2]. Colis L, et al. Design, synthesis, and structure-activity relationships of pyridoquinazolinecarboxamides as RNA polymerase I inhibitors. <u>J Med Chem</u> . 2014 Jun 12;57(11):4950-61. [3]. Peltonen K, et al. Small molecule BMH-compounds that inhibit RNA polymerase I and cause nucleolar stress. <u>Mol Cancer Ther</u> . 2014 Nov;13(11):2537-46.			

源叶生物