

产品名称: **STF-118804**

产品别名: **STF-118804**

生物活性:					
Description	STF-118804 is a highly specific NAMPT inhibitor; reduces the viability of most B-ALL cell lines with IC50 <10 nM. IC50 value: Target: NAMPT inhibitor in vitro: improves survival in an orthotopic xenotransplant model of high-risk acute lymphoblastic leukemia, and targets leukemia stem cells. STF-118804 displays distinctive cytotoxicity by inducing apoptosis without causing a phase-specific cell cycle arrest. Over-expression of NAMPT rendered 293T cells more resistant to STF-118804 resulting in a higher IC50 (106 nM, 95% CI 74–151 nM) compared to control cells (17 nM, 95% CI 13–23 nM), further confirming that NAMPT protein levels dictate sensitivity to STF-118804 [1]. in vivo: STF-118804 displayed high efficacy in a xenograft model of ALL. Mice treated with STF-118804 over a 20-day period survived an average of 34 days longer than vehicle-treated animals. During treatment, bioimaging showed regression of tumor followed by suppression of disease. STF-118804 was tolerated in the efficacious dose range, and the absence of adverse physical or pathological effects indicated that toxicity was not limiting in a 20-day study of mock transplanted mice [1].				
Solvent&Solubility	In Vitro: DMSO : ≥ 31 mg/mL (67.17 mM) * "≥" means soluble, but saturation unknown.				
		Solvent	Mass		
		Concentration	1 mg	5 mg	10 mg
	Preparing	1 mM	2.1667 mL	10.8335 mL	21.6671 mL
Stock Solutions	5 mM	0.4333 mL	2.1667 mL	4.3334 mL	
	10 mM	0.2167 mL	1.0834 mL	2.1667 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]. Matheny CJ, et al. Next-generation NAMPT inhibitors identified by sequential high-throughput phenotypic chemical and functional genomic screens. Chem Biol. 2013 Nov 21;20(11):1352-63.				