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产品名称: **NSC232003**
 产品别名: **NSC232003**

生物活性:					
Description	NSC232003 is a highly potent and cell-permeable UHRF1 inhibitor, which inhibits DNA methylation in vitro and disrupts DNMT1/UHRF1 interactions at a cellular level.				
IC₅₀ & Target	UHRF1 ^[1]				
In Vitro	NSC232003, a uracil derivative freely available by the NCI/DTP repository, provides a versatile lead for developing highly potent and cell-permeable UHRF1 inhibitors that will enable dissection of DNA methylation inheritance. NSC232003 is indeed an effective DNA methylation inhibitor and indicate that this particular nucleotide scaffold could provide a versatile basis for the design of potent UHRF1 inhibitors. NSC232003 is predicted to be partially deprotonated at pH 7, as the pK _a of the more acidic imide nitrogen of the pyrimidine ring is a value of 7.6 in NSC232003. The DNMT1/UHRF1 interactions are significantly reduced after 4 h of incubation of U251 glioma cells with the most potent compound NSC232003, showing a 50% interaction inhibition at 15 μM as well as induction of global DNA cytosine demethylation as measured by ELISA ^[1] .				
Solvent&Solubility	In Vitro: H₂O : 17 mg/mL (100.51 mM; Need ultrasonic and warming) DMSO : < 1 mg/mL (insoluble or slightly soluble)				
		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing	1 mM	5.9123 mL	29.5613 mL	59.1226 mL
	Stock Solutions	5 mM 10 mM	1.1825 mL 0.5912 mL	5.9123 mL 2.9561 mL	11.8245 mL 5.9123 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]. Myrianthopoulos V, et al. Tandem virtual screening targeting the SRA domain of UHRF1 identifies a novel chemical tool modulating DNA methylation. Eur J Med Chem. 2016 May 23;114:390-6.				