

产品名称: NSC 319726
 产品别名: NSC319726 (ZMC1)

生物活性:					
Description	NSC319726 (ZMC1) is a mutant p53R175 reactivator; inhibits growth of fibroblasts expressing the p53R175 mutation (IC50 = 8 nM); shows no inhibition for p53 wild-type cells.				
IC ₅₀ & Target	IC50: 8 nM (mutant p53R175 reactivator)[1].				
In Vitro	For NSC319726, the effect was even greater as the IC50 for the 175 mutant was 8 nM while the IC50 of the WT was not reached. NSC319726 did not induce WT p53 protein levels or transcriptional activity as common cytotoxic agents such as etoposide do in vitro. NSC319726 exhibited a much higher sensitivity for the MEF-p53R172H/R172H cell line as compared to the p53+/+ and p53-/- controls. NSC319726 treatment of a MEF cell line derived from p53R172H/R172H mice resulted in a loss of PAB240 immunoflouresence staining.				
In Vivo	At a dose of 1mg/kg, tumor growth of the H460 (p53+/+) and MDAMB468 (p53R273W) xenografts was not inhibited relative to the vehicle control whereas tumor growth was significantly inhibited in the TOV112D (p53R175H) xenografts. When we lowered the dose ten-fold to 0.1 mg/kg in the TOV112D mice, we observed only a small difference in tumor growth inhibition demonstrating both a dosage effect of the drug and a larger therapeutic window. Taken together, these findings provide in vivo evidence for allele specific p53 mutant reactivation.				
Solvent&Solubility	In Vitro:				
	DMSO : 27.5 mg/mL (117.36 mM; Need ultrasonic and warming)				
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	4.2677 mL	21.3383 mL	42.6767 mL
		5 mM	0.8535 mL	4.2677 mL	8.5353 mL
		10 mM	0.4268 mL	2.1338 mL	4.2677 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℃, 6 months; -20℃, 1 month。 -80℃ 储存时，请在 6 个月内使用，-20℃ 储存时，请在 1 个月内使用。					
References	[1]. Yu X, et al. Allele-specific p53 mutant reactivation. Cancer Cell. 2012 May 15;21(5):614-25.				