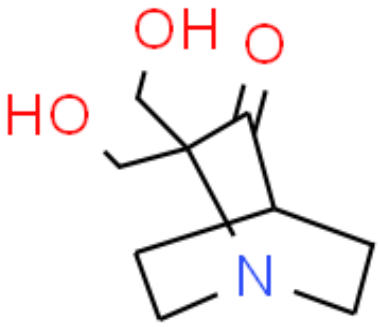
Product Data Sheet

Cas No.:	5608-24-2	Cat. No:	PL07025
Product Name:	PRIMA-1		
Product synonym:	2,2-二羟基甲基-1-氮杂双环[2.2.2]辛-3-酮;2,2-双(羟基甲基)-1-氮杂双环[2.2.2]辛烷-3-酮;PRIMA-1		
Chemical name:	PRIMA-1		
MF:	C9H15NO3	FW:	185.2203
Purity:	≥98%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	O=C1C(CO)(CO)N2CCC1CC2		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

PRIMA-1 (NSC-281668) 是一种突变型 p53 复活剂，可恢复 TP53 突变型甲状腺癌细胞对组蛋白甲基化抑制剂 3-Deazaneplanocin A 的敏感性。

生物活性	PRIMA-1 (NSC-281668) is a mutant p53 reactivator, restores the sensitivity of TP53 mutant-type thyroid cancer cells to the histone methylation inhibitor 3-Deazaneplanocin A.
IC50 & Target[1][2]	p53
体外研究(In Vitro)	The cell lines are cultured in the presence of PRIMA-1 (NSC-281668) at 0-140 μM. The IC50s are 35, 40, 50, 50, 60, 70 and 75 μM for PANC-1, HEC-1-B, SUM149, AN 3CA, Ishikawa, Panc02 and MDA-MB-231 cells, respectively. has not independently confirmed the accuracy of these methods. They are for reference only.

体内研究(In Vivo)	PRIMA-1 (Prima-1) is a p53-modulating agent. 150 or 300 ppm PRIMA-1 significantly suppresses (P<0.0001) lung adenocarcinoma formation by 56% and 62%, respectively, after 17 weeks and 39% and 56%, respectively, after 34 weeks. Administration of 150 or 300 ppm PRIMA-1 significantly suppresses NNK-induced total lung adenocarcinoma formation by 57% or 62% (P<0.0001), respectively, after 17 weeks of exposure and by 39% or 56% (P<0.0001), respectively, after 34 weeks of exposure. As with administration of the lower (50 ppm) dose of CP-31398, administration of the lower (150 ppm) dose of PRIMA-1also slightly increases the number of NNK-induced lung adenomas. has not independently confirmed the accuracy of these methods. They are for reference only.
包装储存	Powder -20°C 3 years；4°C 2 years
溶解度数据	In Vitro: H_2O : 100 mg/mL (539.90 mM; Need ultrasonic)DMSO : 50 mg/mL (269.95 mM; Need ultrasonic)配制储备液