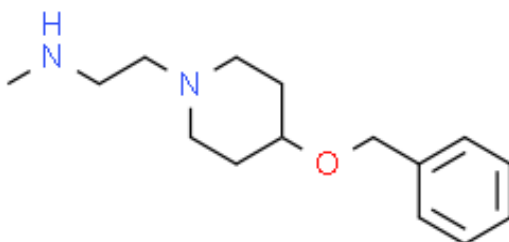


## Product Data Sheet

Cas No.:	1502816-23-0	Cat. No:	PL15042
Product Name:	MS049		
Product synonym:	MS049		
Chemical name:	MS049		
MF:	C15H24N2O	FW:	248.363863945007
Purity:	≥98%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	CNCCN1CCC(OCC2=CC=CC=C2)CC1		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

## Product Description

MS049 是一种高效、选择性和细胞活性的 PRMT4 和 PRMT6 双重抑制剂，IC<sub>50</sub> 分别为 34 nM 和 43 nM。MS049 降低了 HEK293 细胞的 Med12me2a 和 H3R2me2a 水平。MS049 对 HEK293 细胞无毒，并且没有影响其的生长。

生物活性	MS049 is a potent, selective, and cell-active dual inhibitor of PRMT4 and PRMT6 with IC <sub>50</sub> s of 34 nM and 43 nM, respectively. MS049 reduces levels of Med12me2a and H3R2me2a in HEK293 cells. MS049 is not toxic and does not affect the growth of HEK293 cells.
IC50 & Target[1][2]	PRMT4 34 nM () PRMT6 43 nM ()

体外研究(In Vitro)	<p>MS049 (0.1-10 <math>\mu</math>M; 20 hours) reduces the H3R2me2a mark in HEK293 cells in a concentration dependent manner (IC50=0.97<math>\pm</math>0.05 <math>\mu</math>M).</p> <p>MS049 (0.1-100 <math>\mu</math>M; 72 hours) inhibits endogenous PRMT4 methyltransferase activity in a concentration dependent manner resulting in reduced levels of cellular asymmetric arginine dimethylation of Med12 (Med12-Rme2a, IC50=1.4<math>\pm</math>0.1 <math>\mu</math>M) in HEK293 cells.</p> <p>MS049 is selective for PRMT4 and PRMT6 over a broad range of epigenetic modifiers, including other PRMTs, PKMTs, DNMTs, KDMs, and methyllysine/methylarginine reader proteins, and non-epigenetic targets. has not independently confirmed the accuracy of these methods. They are for reference only.</p>
包装储存	Powder -20°C 3 years; 4°C 2 years
溶解度数据	In Vitro: H <sub>2</sub> O : $\geq$ 100 mg/mL (402.64 mM)DMSO : $\geq$ 31 mg/mL (124.82 mM)