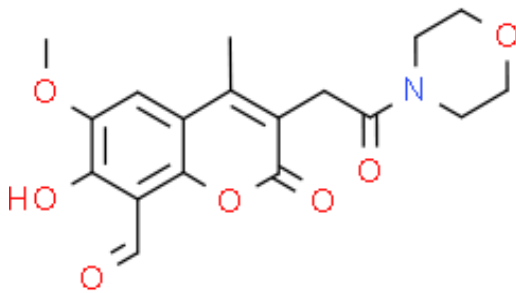


Product Data Sheet

Cas No.:	1338934-59-0	Cat. No:	PL01479
Product Name:	MKC8866		
Product synonym:	-		
Chemical name:	MKC8866		
MF:	C18H19NO7	FW:	361.3460
Purity:	≥99%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	O1CCN(C(CC2C(=O)OC3=C(C=O)C(=C(C=C3C=2C)OC)O)=O)CC1		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

MKC8866 是一种水杨醛类似物，有效的选择性 IRE1 RNase 抑制剂，在体外的 IC₅₀ 为 0.29 μM。MKC8866 强烈抑制 Dithiothreitol 诱导的 XBP1s 表达，EC₅₀ 为 0.52 μM。MKC8866 抑制无应激 RPMI 8226 细胞，IC₅₀ 为 0.14 μM。MKC8866 抑制乳腺癌细胞中的 IRE1 RNase 导致促肿瘤发生因子减少，同时也能抑制前列腺癌 (PCa) 肿瘤的生长。

生物活性	MKC8866, a salicylaldehyde analog, is a potent, selective IRE1 RNase inhibitor with an IC ₅₀ of 0.29 μM in human vitro. MKC8866 strongly inhibits Dithiothreitol-induced X-box-binding protein 1-spliced (XBP1s) expression with an EC ₅₀ of 0.52 μM and unstresses RPMI 8226 cells with an IC ₅₀ of 0.14 μM. MKC8866 inhibits IRE1 RNase in breast cancer cells leading to the decreased production of pro-tumorigenic factors and it can inhibits prostate cancer (PCa) tumor growth.
IC50 & Target[1][2]	IC50: 0.29 μM (IRE1 RNase)

体外研究(In Vitro)	<p>MKC8866 (20μM; 6 days) decreases proliferation of all breast cancer cell lines.</p> <p>MKC8866 (20 μM; 48 hours) reduces the number of cells entering S phase.</p> <p>MKC8866 (0.2-10 μM; 3 days) suppresses the viability of all four cell lines in a dose-dependent manner under normal conditions, with the most robust effect in LNCaP cells.</p> <p>MKC8866 (20 μM; 72?hours) is sufficient to completely block NSC 125973-induced expression of XBP1s .</p> <p>has not independently confirmed the accuracy of these methods. They are for reference only.</p>
体内研究(In Vivo)	<p>MKC8866 (oral ; 300 mg/kg; for 28 days) reduces tumor regrowth post-NSC 125973 withdrawal. has not independently confirmed the accuracy of these methods. They are for reference only. Animal Model: Female athymic nude mice with MDA-MB-231 tum</p>
包装储存	<p>Powder -20°C 3 years; 4°C 2 years</p>
溶解度数据	<p>In Vitro: DMSO : 6.67 mg/mL (18.46 mM; ultrasonic and warming and heat to 60°C)配制储备液</p>