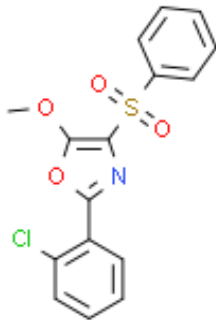


Product Data Sheet

Cas No.:	2056261-41-5	Cat. No:	PL02314
Product Name:	BRD0705		
Product synonym:	-		
Chemical name:	BRD0705		
MF:	C16H12CLNO4S	FW:	349.788782119751
Purity:	≥99%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	ClC1C=CC=CC1=NC(=C(OC)O1)S(=O)(=O)C2=CC=CC=C2		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

BRD0705 是一种有效的，具有旁系选择性和口服活性的 GSK3α 抑制剂，IC50 为 66 nM，Kd 为 4.8 μM。BRD0705 与 GSK3β (IC50 为 515 nM) 相比，对 GSK3α 的选择性更高 (8 倍)。BRD0705 可用于急性髓细胞性白血病的研究。

生物活性	BRD0705 is a potent, paralog selective and orally active GSK3α inhibitor with an IC50 of 66 nM and a K d of 4.8 μM. BRD0705 displays increased selectivity for GSK3α (8-fold) versus GSK3β (IC 50 of 515 nM). BRD0705 can be used for acute myeloid leukemia (AML) research.
IC50 & Target[1][2]	GSK3α 66 nM (IC50) GSK3α 4.8 μM (Kd)

体外研究(In Vitro)	<p>BRD0705 displays excellent selectivity in a panel of 311 kinases, the CDK family of kinases (CDK2, 3 and 5) are next most potently inhibits at values of 6.87 μM, 9.74 μM and 9.20 μM (87-fold, 123-fold and 116-fold selectivity relative to GSK3α).</p> <p>BRD0705 (10-40 μM; 2-24 hours; U937 cells) treatment impairs GSK3α Tyr279 phosphorylation in a time-and concentration-dependent manner without affecting GSK3β Tyr216 phosphorylation.</p> <p>Using a β-catenin dependent TCF/LEF luciferase reporter assay, the absence of β-catenin induced target activation after treatment with BRD0705 in AML cell lines.</p> <p>BRD0705 impairs AML colony formation in all six tested cell lines, MOLM13, TF-1, U937, MV4-11, HL-60 and NB4, in a concentration-dependent manner, as opposed to BRD3731 which impairs colony formation in TF-1 while increasing colony forming ability in the MV4-11 cell line.</p>
体内研究(In Vivo)	<p>BRD0705 (30 mg/kg; oral gavage; twice daily; NSG mice) treatment impairs leukemia initiation and prolongs survival in AML mouse models. has not independently confirmed the accuracy of these methods. They are for reference only. Animal Model:</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 : 300 mg/mL (933.36 mM; Need ultrasonic)配制储备液</p>