BDP9066

HY-111424		
2226507-04	-4	
$C_{20}H_{24}N_{6}$		
348.44		
Ras		
GPCR/G Protein		
Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month
	2226507-04 C ₂₀ H ₂₄ N ₆ 348.44 Ras GPCR/G Pro Powder	2226507-04-4 $C_{20}H_{24}N_6$ 348.44 Ras GPCR/G Protein Powder -20°C 4°C In solvent -80°C

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SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	2.8699 mL	14.3497 mL	28.6993 mL	
		5 mM	0.5740 mL	2.8699 mL	5.7399 mL	
		10 mM	0.2870 mL	1.4350 mL	2.8699 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1 mg/mL (2.87 mM); Clear solution					
	 Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1 mg/mL (2.87 mM); Clear solution 					

BIOLOGICAL ACTIVITY				
Description	BDP9066 is a potent and selective myotonic dystrophy-related Cdc42-binding kinase MRCK inhibitor with an IC ₅₀ of 64 nM for MRCKβ in SCC12 cells, K _i values of 0.0136 nM and 0.0233 nM for MRCKα/β in house determinations, respectively. BDP9066 has therapeutic effect on skin cancer by reducing substrate phosphorylation.			
IC ₅₀ & Target	IC50: 64 nM (MRCKβ in SCC12 cells), Ki: 0.0136 nM/0.0233 nM (MRCKα/β) ^[1] .			
In Vitro	BDP9066 shows antiproliferative effects with greatest activity in hematologic cancer cells. BDP9066 inhibits MLC phosphorylation and blocks SCC12 squamous cell carcinoma motility and invasion ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

Product Data Sheet

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BDP9066 topical application significantly decreases phosphorylated MRCKα S1003 staining and tumor volumes^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Unbekandt M, et al. Discovery of Potent and Selective MRCK Inhibitors with Therapeutic Effect on Skin Cancer. Cancer Res. 2018 Apr 15;78(8):2096-2114.

Caution: Product has not been fully validated for medical applications. For research use only.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA