BSc5367

HY-144425		
3029584-84	-4	
C ₂₀ H ₁₅ N ₃ O ₂	2	
329.35		
Others		
Others		
Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month
	3029584-84 C ₂₀ H ₁₅ N ₃ O ₂ 329.35 Others Others Powder	$3029584-84-4 \\ C_{20}H_{15}N_{3}O_{2} \\ 329.35 \\ Others \\ Others \\ Powder \\ Powder \\ -20^{\circ}C \\ 4^{\circ}C \\ In solvent \\ -80^{\circ}C \\ \end{tabular}$

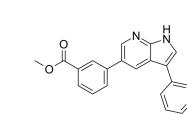
SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Mass Solvent Concentration	1 mg	5 mg	10 mg	
		1 mM	3.0363 mL	15.1814 mL	30.3628 mL	
		5 mM	0.6073 mL	3.0363 mL	6.0726 mL	
		10 mM	0.3036 mL	1.5181 mL	3.0363 mL	
	Please refer to the sc	lubility information to select the ap	propriate solvent.			
Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1 mg/mL (3.04 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 1 mg/mL (3.04 mM); Suspended solution; Need ultrasonic					
	 Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1 mg/mL (3.04 mM); Clear solution 					

BIOLOGICAL ACTIV	
Description	BSc5367 is a potent Nek1 inhibitor with an IC ₅₀ of 11.5 nM. NIMA-related protein kinase Nek1 is crucially involved in cell cyc regulation, DNA repair and microtubule regulation and dysfunctions of Nek1 play key roles in amyotrophic lateral sclerosis (ALS), polycystic kidney disease (PKD) and several types of radiotherapy resistant cancer ^[1] .

REFERENCES

Product Data Sheet





[1]. Pilakowski J, et al. Design, synthesis and biological evaluation of novel aminopyrazole- and 7-azaindole-based Nek1 inhibitors and their effects on zebrafish kidney development. Bioorg Med Chem Lett. 2021;53:128418.

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

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