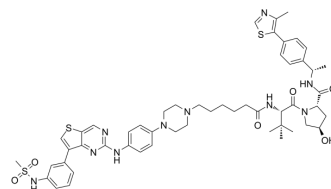


RSS0680

Cat. No.:	HY-148062		
CAS No.:	2769753-48-0		
Molecular Formula:	C ₅₂ H ₆₄ N ₁₀ O ₆ S ₃		
Molecular Weight:	1021.32		
Target:	CDK; AAK1; Cyclin G-associated Kinase (GAK); Salt-inducible Kinase (SIK); LIM Kinase (LIMK); Wee1; PROTACs		
Pathway:	Cell Cycle/DNA Damage; Neuronal Signaling; Immunology/Inflammation; PROTAC		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 200 mg/mL (195.83 mM); ultrasonic and warming and heat to 60°C				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	0.9791 mL	4.8956 mL	9.7913 mL
		5 mM	0.1958 mL	0.9791 mL	1.9583 mL
	10 mM	0.0979 mL	0.4896 mL	0.9791 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: ≥ 5 mg/mL (4.90 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	RSS0680 (Example 22) is a bifunctional compound targeted protein degradation of kinases. RSS0680 degrades AAK1, CDK1, CDK16, CDK2, CDK4, CDK6, EIF2AK4, GAK, LATS1, LIMK2, MAPK6, MAPKAPK5, MARK2, MARK4, MKNK2, NEK9, RPS6KB1, SIK2, SNRK, STK17A, STK17B, STK35, and WEE1. RSS0680 can be used for research of disease or disorder mediated by aberrant kinase activity ^[1] .			
IC₅₀ & Target	CDK1	CDK1	CDK2	CDK2
	CDK4	CDK4	CDK6	CDK6
	SIK2	SIK2	CDK16/Cyclin Y	CDK16/Cyclin Y

REFERENCES

[1]. Gray Nathanael S, et al. Bifunctional compounds for targeted protein degradation of kinases: World Intellectual Property Organization, WO2022093742[P]. 2022-05-05.

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

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