BOS-172722

Cat. No.:	HY-112162		
CAS No.:	1578245-44	-9	
Molecular Formula:	$C_{24}H_{30}N_8O$		
Molecular Weight:	446.55		
Target:	Mps1		
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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SOLVENT & SOLUBILITY

	0, (soluble or slightly soluble)			
	Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	2.2394 mL	11.1970 mL	22.3939 mL
	5 mM	0.4479 mL	2.2394 mL	4.4788 mL	
	10 mM	0.2239 mL	1.1197 mL	2.2394 mL	

BIOLOGICAL ACTIV	
Description	BOS-172722 is an inhibitor of monopolar spindle 1 (MPS1) checkpoint with an IC ₅₀ of 11 nM and 63 nM for MPS1 (1 mM ATP) and P-MPS1, respectively. BOS-172722 also has potential for the study of various forms of breast cancer ^[1] .
IC ₅₀ & Target	2 nM (MPS1) ^[1] .
In Vitro	BOS-172722 is an inhibitor of monopolar spindle 1 (MPS1) checkpoint with an IC ₅₀ of 2 nM. BOS-172722 also has potential for the treatment of various forms of breast cancer ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	BOS-172722 shows excellent PK in mouse, rat, and dog ^[1] . BOS-172722 (50 mg/kg) results in an increased suppression of MPS1 autophosphorylation at 6 and 24 h ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Product Data Sheet

ΗN

Animal Model:	Dog ^[2] .
Dosage:	1 mg/kg (iv), 5 mg/kg (po) (Pharmacokinetic Analysis).
Administration:	IV and PO.
Result:	T1/2 = 12 h, Cmax _{po} = 7770 nmol/L, AUC _{po} = 147035 h*nmol/L.

REFERENCES

[1]. ARYL SULFONOHYDRAZIDES. WO 2014037750 A1.

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

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