

Product Name: Sephin1 Revision Date: 08/16/2021

## **Product Data Sheet**

# Sephin1

Cat. No.: A8708

**CAS No.:** 13098-73-2 **Formula:** C8H9CIN4

Synonyms:

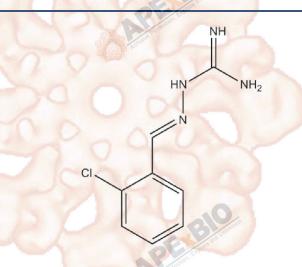
M.Wt:

Target: Chromatin/Epigenetics

Pathway: Protein Ser/Thr Phosphatases

196.64

Storage: Store at -20°C



# Solvent & Solubility

insoluble in H2O; insoluble in EtOH; ≥7.75 mg/mL in DMSO

In Vitro

	Mass			
Dranavina	Solvent	1mg	5mg	10mg
Preparing Stock Solutions	Concentration			
	1 mM	5.0854 mL	25.4272 mL	50.8544 mL
	5 mM	1.0171 mL	5.0854 mL	10.1709 mL
	10 mM	0.5085 mL	2.5427 mL	5.0854 mL

Please refer to the solubility information to select the appropriate solvent.

## **Biological Activity**

Shortsummary	Selective PPP1R15A inhibitor	.0
IC <sub>50</sub> & Target	40.	to be britished
	Cell Viability Assay	A.P. Commission

In Vitro

Cell Viability Assay		
Cell Line:	HeLa and 293T cells	
Preparation method:	Limited solubility. General tips for obtaining a higher concentration: Please	
	warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for	
	a while. Stock solution can be stored below -20°C for several months.	
Reacting conditions:	6 h	

	Applications:	Sephin1 selectively disrupts the PPP1R15A-PP1c complex but leave the
		related PPP1R15B-PP1c complex unaffected. Thus Sephin1 prolongs eIF2a
		phosphorylation after stress, delays translation recover and attenuates
		expression of stress genes such as pro-apoptotic protein-CHOP.
	Animal experiment	
	Animal models:	SOD1 mice SOD1G93A in C57BL/6J
	Dosage form:	5 mg/kg
	Applications:	The progressive weight loss of SOD1 mutant mice and their motor deficits are
		almost completely prevented by 5 mg/kg of Sephin1 once a day, without
In Vivo		adverse effects on weight gain or motor performance of wild-type mice.
		Sephin1 also prevents the motor deficits of SOD1 mutant mice that associated
		with motor neuron loss.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may
	10.	slightly differ with the theoretical value. This is caused by an experimental
	the Unitrovin	system error and it is normal.

### **Product Citations**

See more customer validations on www.apexbt.com.

#### References

1. Das I, Krzyzosiak A, Schneider K et al. Preventing proteostasis diseases by selective inhibition of a phosphatase regulatory subunit. Science. 2015 Apr 10;348(6231):239-42.

#### Caution

#### FOR RESEARCH PURPOSES ONLY.

#### NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

#### **APExBIO Technology**

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