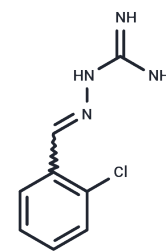


Sephin1

Chemical Properties

CAS No. :	13098-73-2
Formula:	C ₈ H ₉ ClN ₄
Molecular Weight:	196.64
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Sephin1 (IFB-088) is reportedly a selective inhibitor of GADD34 (PPP1R15A), which is a stress-induced regulatory subunit of protein phosphatase 1 complex that dephosphorylates eIF2 α
Targets(IC50)	Phosphatase
In vitro	Sephin1 leads to a strong attenuation of neuronal excitotoxicity independently of the integrated stress response[1].
In vivo	Sephin1 safely prevented the motor, morphological, and molecular defects of two otherwise unrelated protein-misfolding diseases in mice, Charcot-Marie-Tooth 1B, and amyotrophic lateral sclerosis[2].

Solubility Information

Solubility	DMSO: 7mg/ml(35.60mM), H ₂ O: insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.1017 mL	0.5085 mL	1.0171 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Ruiz A , Zuazo J , Ortiz-Sanz C , et al. Sephin1 Protects Neurons against Excitotoxicity Independently of the Integrated Stress Response[J]. International Journal of Molecular Sciences, 2020, 21(17):6088.

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