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DATASHEET

Sephin1

Product overview

Name	Sephin1
Cat No	HB4296
Alternative names	NSC65390
Biological action	Inhibitor
Purity	>95%
Description	Selective PP1R15A inhibitor

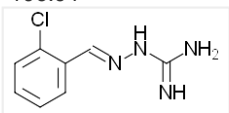
Biological Data

Biological description	Selective inhibitor of the stress-induced Protein Phosphatase 1 Regulatory Subunit 15A (PP1R15A). Guanabenz derivative. Does not bind the related PP1R15B. Protects cells from protein misfolding stress and prevents protein-misfolding diseases such as Charcot-Marie-Tooth 1B and amyotrophic lateral sclerosis <i>in vivo</i> .
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (100 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(E)-2-(2-Chlorobenzylidene)hydrazinecarboximidamide
Molecular Weight	196.64
Chemical structure	
Molecular Formula	C ₈ H ₉ ClN ₄
CAS Number	951441-04-6
PubChem identifier	9561611
SMILES	C1=CC=C(C(=C1)/C=N/N=C(N)N)Cl
InChi	InChi=1S/C8H9ClN4/c9-7-4-2-1-3-6(7)5-12-13-8(10)11/h1-5H,(H4,10,11,13)/b12-5+
InChiKey	PDWJALXSRRSUHR-LFYBBSHMSA-N
MDL number	MFCD00790608

References

Preventing proteostasis diseases by selective inhibition of a phosphatase regulatory subunit.

Das I et al (2015) Science 348(6231)

PubMedID [25859045](https://pubmed.ncbi.nlm.nih.gov/25859045/)

