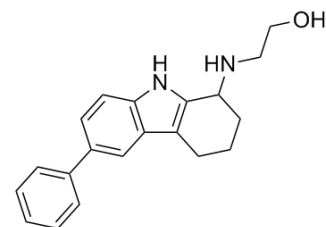


CASIN

Cat. No.:	HY-12874		
CAS No.:	425399-05-9		
Molecular Formula:	C ₂₀ H ₂₂ N ₂ O		
Molecular Weight:	306.4		
Target:	Ras		
Pathway:	GPCR/G Protein		
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 : ≥ 31 mg/mL (101.17 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.2637 mL	16.3185 mL	32.6371 mL
	5 mM	0.6527 mL	3.2637 mL	6.5274 mL
	10 mM	0.3264 mL	1.6319 mL	3.2637 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.08 mg/mL (6.79 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.08 mg/mL (6.79 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.08 mg/mL (6.79 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CASIN is a selective GTPase Cdc42 inhibitor with IC₅₀ of 2 μM. In vitro: Treatment with CASIN (5 μM) reduced the elevated level of active Cdc42 observed in aged primitive hematopoietic cells to the level observed in young cells In vivo: Reverses the aging-related and polarity phenotype of aged HSCs to that of young HSCs.

CUSTOMER VALIDATION

-
- Toxicol Sci. 2018 Sep 1;165(1):254-266.
 - Birth Defects Res. 2020 Dec 10.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Florian MC et al. Cdc42 activity regulates hematopoietic stem cell aging and rejuvenation. Cell Stem Cell, 2012 May 4, 10(5):520-30.
- [2]. Peterson JR et al. Biochemical suppression of small-molecule inhibitors: a strategy to identify inhibitor targets and signaling pathway components.
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Caution: Product has not been fully validated for medical applications. For research use only.

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