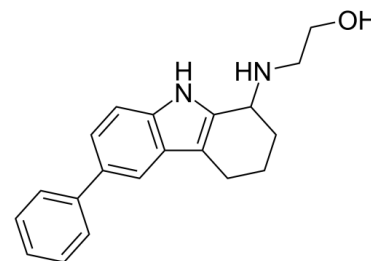


Data Sheet

Product Name:	CASIN
Cat. No.:	CS-5671
CAS No.:	425399-05-9
Molecular Formula:	C ₂₀ H ₂₂ N ₂ O
Molecular Weight:	306.40
Target:	Ras
Pathway:	GPCR/G Protein
Solubility:	DMSO : ≥ 31 mg/mL (101.17 mM)



BIOLOGICAL ACTIVITY:

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.

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.

CAIndexNames:

Ethanol, 2-[(2,3,4,9-tetrahydro-6-phenyl-1H-carbazol-1-yl)amino]-

SMILES:

OCCNC1C(NC2=C3C=C(C4=CC=CC=C4)C=C2)=C3CCC1

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

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