
CASIN

产品编号: D50733

CAS: 425399-05-9

分子式: C₂₀H₂₂N₂O

纯度: ≥98%

InChi: InChI=1S/C₂₀H₂₂N₂O/c23-12-11-21-19-8-4-7-16-17-13-15(14-5-2-1-3-6-14)9-10-18(17)22-20(16)19/h1-3,5-6,9-10,13,19,21-23H,4,7-8,11-12H₂

InChi Key: RXIUMAOXORBCY-UHFFFAOYSA-N

Smiles: OCCNC1CCCC2=C1NC1=CC=C(C=C21)C1C=CC=CC=1

外观: 固体粉末

作用通路: Ras

溶解性: DMSO up to 100 mM

保存条件: Store in dry, dark place for one year.

产品介绍: CASIN is a novel and potent Cdc42 inhibitor with an IC₅₀ ~2 μM. In a recent publication in Cell Stem Cell, the elevated activity of the small RhoGTPase Cdc42 in aged HSCs was shown to be causally linked to HSC aging and correlate with a loss of polarity in aged HSCs. CASIN as a specific inhibitor of Cdc42 was shown to functionally rejuvenate aged HSCs, increase the percentage of polarized cells in an aged HSC population, and restore the level and spatial distribution of histone H4 lysine 16 acetylation to a status similar to that seen in young HSCs. CASIN-treated HSCs were further shown to engraft long term in vivo with enhanced repopulation ability.