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SAG

产品编号: D50756

CAS: 364590-63-6

分子式: C28H28ClN3OS

纯度: ≥98%

InChi: InChI=1S/C28H28ClN3OS/c1-30-22-9-11-23(12-10-22)32(28(33)27-26(29)24-7-2-3-8-25(24)34-27)18-19-5-4-6-21(17-19)20-13-15-31-16-14-20/h2-8,13-17,22-23,30H,9-12,18H2,1H3/t22-,23-

InChi Key: VFSUUTYAEQOIMW-YHBQERECSA-N

Smiles: CN[C@@H]1CC[C@H](CC1)N(CC1C=CC=C(C=1)C1C=CN=CC=1)C(=O)C1SC2=CC=CC=C2C=1Cl

外观: 固体粉末

作用通路: Smo

溶解性: DMSO up to 50 mM

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

产品介绍: SAG is a potent, selective, and cell-permeable small-molecule agonist of the Hedgehog pathway. It modulates the coupling of Smo with its downstream effector by interacting with the Smo heptahelical domain (KD = 59 nM). SAG induces Hedgehog pathway activation with an EC50 of ~3 nM in NIH 3T3-derived Shh-LIGHT2 cells and counteracts Cyclopamine-KAAD inhibition of Smo. It was reported that SAG acts as an activator at low concentrations and as an inhibitor at high concentrations (>1 μM). In recent studies, SAG was shown to prevent glucocorticoid-induced neonatal cerebellar injury, and trigger rapid metabolic rewiring via AMPK.