Product Sheet

SAG, SMO agonist

Catalog # SAG-01; SAG-05; SAG-25

Description SAG is a highly potent agonist of SMO (smoothened). This small molecule compound activates the hedgehog pathway by directly binding to SMO. Note: in the Gli-1 reporter gene assay, SAG acts as an activator at concentrations from approximately 1 nM to 1 uM, but as an inhibitor at concentrations high than 1 uM.

Ref: Chen, J.K., et al. 2002. Proc. Natl. Acad. Sci. USA *99, 14071*

Formulation Solution. 3.33 mg/mL in DMSO (5.5 mM)

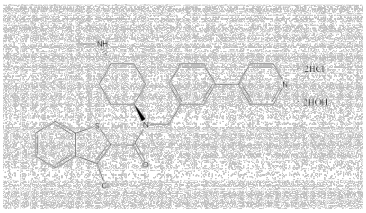
Reconstitution The compound has been dissolved in DMSO.

Stability The powder is stable for at least 2 year if stored at -20 degree C. The dissolved compound is stable for at least 1 month at 4 degree C, but should be stored in aliquots at -20 degree C for longer term. Protect from light.

Purity Greater than 98% as determined by LC/MS analysis. LC/MS and/or NMR data available upon request.

Biological Activity In a cell-based assay measuring the activation of the Gli-1 reporter gene, this compound gives EC50 of 5-15 nM.

Structural Info



MW: 599
Formula: $C_{28}H_{28}ClN_3OS \cdot 2HCl \cdot 2H_2O$
Solubility: Soluble in DMSO or H_2O at 10 mM.
CAS: 364590-63-6

Hazard/toxicity **This compound is potentially toxic. Handle with extreme care.**

For Research Use Only. Not for Use in Humans.

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