



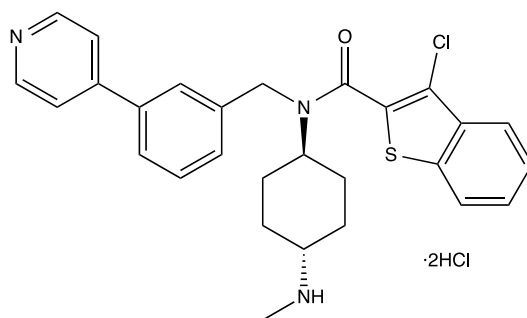
Catalog #10-4525

SAG dihydrochloride

CAS# 912545-86-9 (free base)

N-Methyl-N'-(3-pyridinylbenzyl)-N'-(3-chlorobenzo[b]thiophene-2-carbonyl)-1,4-diaminocyclohexane dihydrochloride

Lot # FBA1156



SAG induces hedgehog pathway activation in a mouse cultured cell assay ($EC_{50} = 3 \text{ nM}$) via binding to smoothened heptahelical bundle ($K_D = 59 \text{ nM}$).^{1,2} SAG displays greatly reduced potency if used at $1 \mu\text{M}$.

- 1) Chen *et al.* (2002) *Small molecule modulation of Smoothened activity* Proc.Natl.Acad.Sci. **99** 14071
- 2) Frank-Kamenetsky *et al.* (2002) *Small-molecule modulators of Hedgehog signaling: identification and characterization of Smoothened agonists and antagonists* J.Biol **1** 10

PHYSICAL DATA

Molecular Weight:	562.98
Molecular Formula:	$\text{C}_{28}\text{H}_{28}\text{ClN}_3\text{OS} \cdot 2\text{HCl}$
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO, water
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or distilled water may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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