

SAG dihydrochloride Biochemical | SAG biochemical

SAG dihydrochloride

CATALOG #
AAA228673

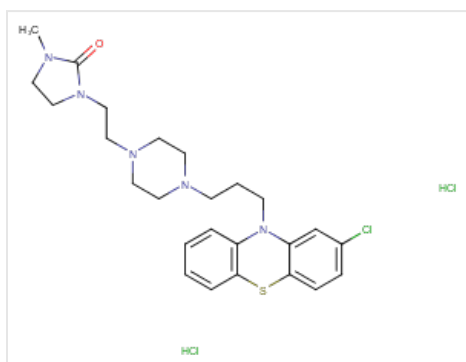
PRODUCT SYNONYMS

SAG dihydrochloride; SAG biochemical

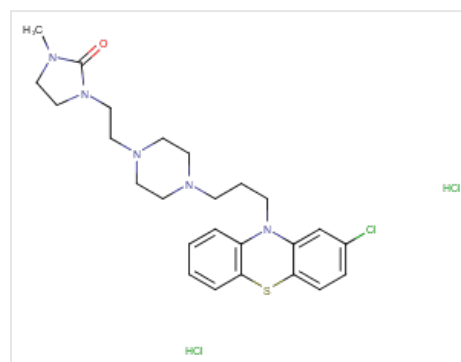
PRODUCT SPECIFICATIONS

Purity/Purification	98%
Solubility	<1mg/ml refers to the product slightly soluble or insoluble
In vitro	SAG (1.0 mM) induces more osteogenesis mainly at the defect borders and a significant increase in BV/TV at the eight week timepoint in CD-1 mice[4]. SAG (15-20 mg/kg; i.p.) induces pre-axial polydactyly prevalently in a dose-dependent manner in mice[5]. Animal Model: Pregnant C57BL/6J mice[5]. Dosage: 15, 17, 20 mg/kg. Administration: A single i.p. Result: Effective in ca. 80% of the embryos and increased Gli1 and Gli2 mRNA expression in the limb bud, with Gli1 mRNA being the most upregulated at the dose of 20 mg/kg.
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
Imiclopazine, CAS 7414-95-1



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ADDITIONAL INFORMATION

Related Product Information for SAG biochemical	SAG dihydrochloride is a potent Smoothened (Smo) receptor agonist (EC 50 =3 nM; K d =59 nM). SAG dihydrochloride activates the Hedgehog signaling pathway and counteracts Cyclopamine (HY-17024) inhibition of Smo.
References	1. A Ramu, et al. Reversal of multidrug resistance by phenothiazines and structurally related compounds. Cancer Chemother Pharmacol. 1992;30(3):165-73. 2. D. Lenke, et al. Pharmacological activity of new phenothiazine and azaphenothiazine derivatives. January 1971, Arzneimittel-Forschung. 21:288-293.

NCBI AND UNIPROT INFORMATION

Molecular Weight	558.99
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/biochemical/sag-dihydrochloride/228673>