

Product Datasheet

Amlodipine Besylate (orb1226970)

Catalog Number	orb1226970
Category	Small Molecules
Description	Amlodipine Besylate is a long-acting calcium channel blocker.(In Vitro):Amlodipine besylate (20-40 μM; 48 h) reduces BrdU incorporation to 68.6% and 26.3% at concentrations of 20 and 30 μM in A431 cells, respectively.Amlodipine besylate (30 μM; pretreated for 1 h) significantly attenuates the uridine 5'-triphosphate (UTP)-induced increases of [Ca ²⁺] _i in A431 cells.Amlodipine besylate (30 μM) inhibits the store-operated Ca ²⁺ influx evoked by Thapsigargin in Fluo-3-loaded cells.(In Vivo):Amlodipine besylate (5 mg/kg/day; s.c. for 2 weeks) significantly decreases systolic blood pressure (SBP) in VSMC ATP2B1 KO mice.Amlodipine besylate (10 mg/kg; i.p. once daily for 20 days) causes a significant retardation of tumor growth and prolongs the survival of A431 tumor-bearing mice.
Target	Calcium Channel
Purity	>98% (HPLC)
MW	567.05
Target Areas	Calcium Channel
Solubility (25°C)	Ethanol: 14 mg/mL (24.68 mM); DMSO: 113 mg/mL (199.27 mM)
CAS Number	111470-99-6
Formula	C ₂₆ H ₃₁ ClN ₂ O ₈ S
SMILES	<chem>O=C(C1=C(COCCN)NC(C)=C(C(OC)=O)C1C2=CC=CC=C2Cl)OCC.O=S(C3=CC=C(C=C3)(O)=O</chem>
Chemical Name	3,5-Pyridinedicarboxylic acid, 2-((2-aminoethoxy)methyl)-4-(2-chlorophenyl)-1,4-dihydro-6-methyl-, 3-ethyl 5-methyl ester, (+-)-, monobenzenesulfonate

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Storage Storage temperature: -20°C. Stability: $\geq$ 2 years

Note For research use only

Expiration Date 12 months from date of receipt.

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