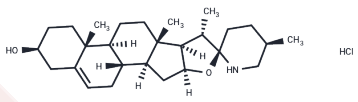
Data Sheet (Cat.No.TN8052)

TargetMol

Solasodine hydrochloride

Chemical Properties



CAS No. : 6106-33-8

Formula: C27H44ClNO2

Molecular Weight: 450.1

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Solasodine hydrochloride (90 μM; 2 days) treatment induced significant budding in P19 cells. This compound strongly stimulated the expression of various neuronal markers, including βIII-tubulin, synaptophysin, MAP2, ChAT, and the neural progenitor marker doublecortin. Predominantly, Solasodine hydrochloride directed the differentiation of P19 cells towards neuronal pathways.
Targets(IC50)	Apoptosis,E1/E2/E3 Enzyme,Antifungal,MDM-2/p53
In vitro	Solasodine hydrochloride (90 μM; 2 days) treatment induced significant budding in P19 cells. This compound strongly stimulated the expression of various neuronal markers, including βIII-tubulin, synaptophysin, MAP2, ChAT, and the neural progenitor marker doublecortin. Predominantly, Solasodine hydrochloride directed the differentiation of P19 cells towards neuronal pathways.
In vivo	Solasodine hydrochloride, administered as a single intraperitoneal injection at doses ranging from 25-100 mg/kg, significantly prolongs the latency period of the hind limb tonic extensor (HLTE) phase during convulsions induced by picrotoxin. It also significantly enhances thiopental-induced sleep in a dose-dependent manner. Additionally, when administered via intracerebroventricular injection at 375 μM consistently over two weeks, Solasodine hydrochloride markedly increases the uptake of bromodeoxyuridine in ependymal layer, subventricular zone, and cortical cells, which colocalize with doublecortin immunostaining. Treatment in rats significantly boosts the expression of cholesterol and drug-binding transport proteins in ependymal cells. The compound exhibits anticonvulsant effects and suppresses central nervous system activity. In animal models, Swiss albino mice weighing 18-25 g were used, treated with either picrotoxin or thiopental.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2217 mL	11.1086 mL	22.2173 mL
5 mM	0.4443 mL	2.2217 mL	4.4435 mL
10 mM	0.2222 mL	1.1109 mL	2.2217 mL
50 mM	0.0444 mL	0.2222 mL	0.4443 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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