

Carbenoxolone

Chemical Properties

CAS No. : 5697-56-3

Formula: C34H50O7

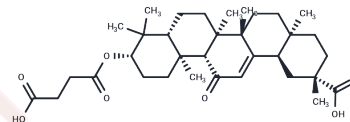
Molecular Weight: 570.76

Storage:

Keep away from direct sunlight, Keep away from moisture, Store under nitrogen

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	Carbenoxolone (Biogastrone) is an inhibitor of 11 β -HSD and gap junction connexin channels. Carbenoxolone inhibits macrophage migration into atria and prevents the development of fatty liver disease.
Targets(IC50)	Beta Amyloid, Gap Junction Protein, HIV Protease, Dehydrogenase

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.752 mL	8.7602 mL	17.5205 mL
5 mM	0.3504 mL	1.752 mL	3.5041 mL
10 mM	0.1752 mL	0.876 mL	1.752 mL
50 mM	0.035 mL	0.1752 mL	0.3504 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.

Reference

- Azarashvili T, et al. Carbenoxolone induces permeability transition pore opening in rat mitochondria via the translocator protein TSPO and connexin43. Arch Biochem Biophys. 2014 Sep 15;558:87-94.
- Tan Z, Pan K, Sun M, et al. CCKBR+ cancer cells contribute to the intratumor heterogeneity of gastric cancer and confer sensitivity to FOXO inhibition. Cell Death & Differentiation. 2024: 1-16.
- Franco-Pérez J, et al. Unilateral microinjection of carbenoxolone into the pontis caudalis nucleus inhibits the pentylentetrazole-induced epileptiform activity in rats. Neurosci Lett. 2015 Aug 18;602:38-43.
- Al-Bader MD, Jaseem SA, Kilarkaje N. Carbenoxolone exposure during late gestation in rats alters placental expressions of p53 and estrogen receptors. Eur J Pharmacol. 2016 Nov 15;791:675-685.
- Kim J, Jung EJ, Moon SS, Seo M. Protective effect of carbenoxolone on ER stress-induced cell death in hypothalamic neurons. Biochem Biophys Res Commun. 2015 Dec 25;468(4):793-9.

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