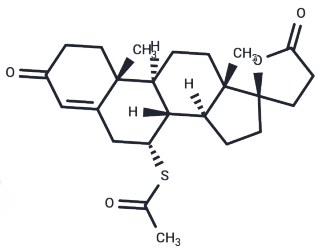
Data Sheet (Cat.No.T0476)

TargetMol

Spironolactone

Chemical Properties



CAS No. :

Formula: C24H32O4S

Molecular Weight: 416.57

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Spironolactone (SC9420) is an Aldosterone Antagonist. The mechanism of action of spironolactone is as an Aldosterone Antagonist.
Targets(IC50)	Glucocorticoid Receptor,Androgen Receptor,Autophagy
In vitro	Spironolactone inhibits the specific binding of stanozololone in the nucleus and prostate cytoplasm of the rat prostate.Spironolactone is a strong AR antagonist with an IC50 of 77 nM, a weak GR antagonist with an IC50 of 2.4 μM, and a weak PR agonist with an EC50 of 740 nM.
In vivo	Spironolactone inhibits the specific binding of stanozololone in the nucleus and prostate cytoplasm of the rat prostate.Spironolactone is a strong AR antagonist with an IC50 of 77 nM, a weak GR antagonist with an IC50 of 2.4 μM, and a weak PR agonist with an EC50 of 740 nM.

Solubility Information

Solubility	Ethanol: 20.8 mg/mL (49.93 mM),Sonication is recommended. DMSO: 45 mg/mL (108.03 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4006 mL	12.0028 mL	24.0056 mL
5 mM	0.4801 mL	2.4006 mL	4.8011 mL
10 mM	0.2401 mL	1.2003 mL	2.4006 mL
50 mM	0.048 mL	0.2401 mL	0.4801 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.

Reference

Fagart J, et al. J Biol Chem, 2010, 285(39), 219932-219940.
Zeng X, Zhu S, Lu W, et al. Target identification among known drugs by deep learning from heterogeneous networks. Chemical Science. 2020, 11(7): 1775-1797.
Bonne C, et al. Mol Cell Endocrinol, 1974, 2(1), 59-67.
Zeng X, Zhu S, Lu W, et al. Target identification among known drugs by deep learning from heterogeneous networks[J]. Chemical Science. 2020, 11(7): 1775-1797.

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481