

Spirolactone [52-01-7]

#Cat: NB-64-00654-1ml Size: 1 ml
 #Cat: NB-64-00654-50mg Size: 50 mg

Chemical Properties

Cas No:
Formula: C₂₄H₃₂O₄S
Molecular weight: 416.57
Appearance: Solid
Storage: store at low temperature, store under nitrogen
 Powder: -20° C for 3 years | In solvent: -80° C for 1 year

Biological Description

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

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