

Product Name: Spironolactone

Catalog No.: 2968

Batch No.: 2

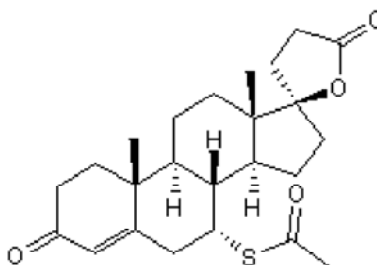
CAS Number: 52-01-7

EC Number: 200-133-6

IUPAC Name: (7 α ,17 α)-7-(Acetylthio)-17-hydroxy-3-oxopregn-4-ene-21-carboxylic acid γ -lactone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₃₂O₄S.
Batch Molecular Weight: 416.57
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 50 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -37.4 (Concentration = 1, Solvent = Chloroform)
Microanalysis:

	Carbon Hydrogen Nitrogen	
Theoretical	69.2	7.74
Found	69.24	7.74

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Spironolactone is a competitive mineralocorticoid (aldosterone) receptor antagonist that exhibits antihypertensive activity in vivo. Also displays antiandrogen activity and inhibits steroid hormone biosynthesis.

Physical and Chemical Properties:

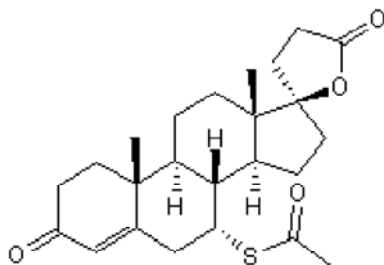
Batch Molecular Formula: C₂₄H₃₂O₄S.

Batch Molecular Weight: 416.57

Physical Appearance: White solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



References:

Ye et al (2009) Contrasting effects of epler. and spironola. on adrenal cell steroidogenesis. *Horm.Metab.Res.* **41** 35. PMID: 18819053.

Struthers et al (2008) A comparison of the aldosterone-blocking agents eplerone and spironola. *Clin.Cardiol.* **31** 153. PMID: 18404673.

Delyani et al (2000) Mineralocorticoid receptor antagonists: the evolution of utility and pharmacology. *Kidney Int.* **57** 1408. PMID: 10760075.

Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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