

Product Name: Eplerenone

Catalog No.: 2397

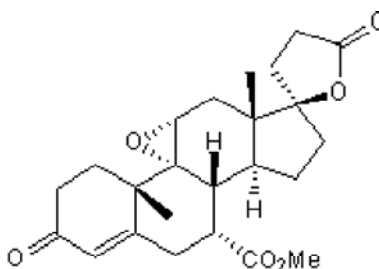
Batch No.: 3

CAS Number: 107724-20-9

IUPAC Name: (7 α ,11 α ,17 α)-9,11-Epoxy-17-hydroxy-3-oxo-pregn-4-ene-7,21-dicarboxylic acid γ -lactone methyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₃₀O₆
Batch Molecular Weight: 414.5
Physical Appearance: White solid
Solubility: DMSO to 10 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.55	7.29	
Found	69.23	7.32	

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

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Description:

Selective mineralocorticoid (aldosterone) receptor antagonist (IC₅₀ = 360 nM). Displays > 27-fold selectivity over androgen, progesterone and estrogen receptors (IC₅₀ > 10 μ M). Orally active antihypertensive in vivo.

Physical and Chemical Properties:

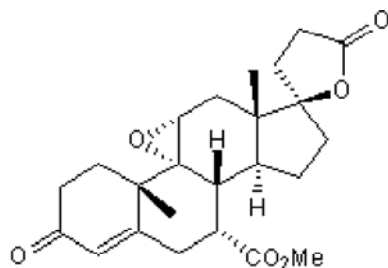
Batch Molecular Formula: C₂₄H₃₀O₆

Batch Molecular Weight: 414.5

Physical Appearance: White solid

Minimum Purity: \geq 99%

Batch Molecular Structure:



References:

McMahon and Cunningham (2001) Recent studies with eplerenone, a novel selective aldosterone receptor antagonist. *Curr.Opin.Pharmacol.* **1** 190. PMID: 11714095.

De Gasparo et al (1987) Three new epoxy-spirolactone derivatives: characterization in vivo and in vitro. *J.Pharmacol.Exp.Ther.* **240** 650. PMID: 2949071.

Storage: Store at RT

Solubility & Usage Info:

DMSO to 10 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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