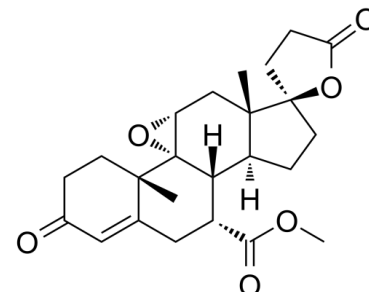


## Data Sheet

<b>Product Name:</b>	Eplerenone
<b>Cat. No.:</b>	CS-2231
<b>CAS No.:</b>	107724-20-9
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>30</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	414.49
<b>Target:</b>	Mineralocorticoid Receptor
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Solubility:</b>	DMSO : 9.33 mg/mL (22.51 mM; Need ultrasonic and warming)



### BIOLOGICAL ACTIVITY:

Eplerenone is an aldosterone antagonist with an IC<sub>50</sub> of 0.36  $\mu$ M. Target: Mineralocorticoid Receptor Eplerenone is a selective mineralocorticoid receptor antagonist, which has been shown to produce sustained increases in plasma renin and serum aldosterone, consistent with inhibition of the negative regulatory feedback of aldosterone on renin secretion. The resulting increased plasma renin activity and aldosterone circulating levels do not overcome the effects of eplerenone. Eplerenone selectively binds to recombinant human mineralocorticoid receptors relative to its binding to recombinant human glucocorticoid, progesterone and androgen receptors [1]. Benefits of eplerenone therapy over placebo were also observed in several secondary outcomes, including: death from any cause or hospitalization for HF; death from any cause; hospitalization for any reason; or hospitalization for HF [2].

### References:

- [1]. Chatterjee, S., et al., Eplerenone is not superior to older and less expensive aldosterone antagonists. *Am J Med*, 2012. 125(8): p. 817-25.
- [2]. Dhillon, S., Eplerenone: a review of its use in patients with chronic systolic heart failure and mild symptoms. *Drugs*, 2013. 73(13): p. 1451-62.

### CAIndexNames:

Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-,  $\gamma$ -lactone, 7-methyl ester, (7 $\alpha$ ,11 $\alpha$ ,17 $\alpha$ )-

### SMILES:

O=C(CC1O[C@@]21CC[C@@]3([H])[C@]4([H])[C@H](C(OC)=O)CC5=CC(CC[C@]5(C)[C@@]46[C@H](O6)C[C@@]32C)=O

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA