



LKT Laboratories, Inc.

Eplerenone

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Product Information

Product ID E6245

CAS No. 107724-20-9

Chemical Name methyl (1R,2S,9R,10R,11S,14R,15S,17R)-2,15-dimethyl-5,5'-dioxospiro [18-oxapentacyclo[8.8.0.01,17.02,7.011,15]octadec-6-ene-14,2'-oxolane]-9-carboxylate

Synonym Epoxymexrenone, Inspra, Selara

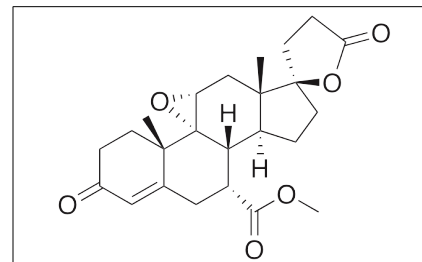
Formula C₂₄H₃₀O₆

Formula Wt. 414.29

Melting Point

Purity ≥99%

Solubility CH₃CN



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
E6245	10 mg	\$142.90
E6245	25 mg	\$306.20
E6245	100 mg	\$918.80

Store Temp Ambient

Ship Temp Ambient

Description Eplerenone displays antihypertensive, anti-inflammatory, and anti-angiogenic activities; it inhibits the mineralocorticoid receptor. Eplerenone inhibits aldosterone-induced expression of COX (therefore decreasing PGE₂ levels), preventing the induction of COX and resulting kidney damage in high salt diets. This compound also prevents salt-induced increases in NOX expression, decreasing oxidative stress in the kidney as well. In spontaneously hypertensive rats, eplerenone inhibited cardiac remodeling (hypertrophy) and left ventricle dysfunction. The antiangiogenic activity of eplerenone is characterized by its inhibition of VEGF expression in the kidney.

References Yasuoka S, Kai H, Kajimoto H, et al. Blood pressure variability activates cardiac mineralocorticoid receptor and induces cardiac remodeling in hypertensive rats. *Circ J.* 2013;77(6):1474-81. PMID: 23470864.

Bayorh M, Rollins-Hairston A, Adiyiah J, et al. Eplerenone inhibits aldosterone-induced renal expression of cyclooxygenase. *J Renin Angiotensin Aldosterone Syst.* 2012 Sep;13(3):353-9. PMID: 22554826.

Bayorh MA, Rollins-Hairston A, Adiyiah J, et al. Eplerenone suppresses aldosterone/ salt-induced expression of NOX-4. *J Renin Angiotensin Aldosterone Syst.* 2011 Sep;12(3):195-201. PMID: 21292834.

Eatman D, Layas MF, Bayorh MA. Eplerenone Suppresses Salt-Induced Vascular Endothelial Growth Factor Expression in the Kidney. *Kidney Blood Press Res.* 2010 Jun 23;33(3):167-173. PMID: 20571278.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.