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## DATASHEET

Eplerenone

### Product overview

<b>Name</b>	Eplerenone
<b>Cat No</b>	HB2527
<b>Description</b>	Selective mineralcorticoid receptor antagonist
<b>Alternative names</b>	Inspra, Epoxymexrenone
<b>Biological action</b>	Antagonist
<b>Purity</b>	>99%

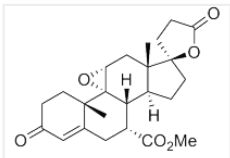
### Biological Data

<b>Biological description</b>	Selective mineralcorticoid receptor antagonist ( $IC_{50} = 990$ nM). Shows little to no effect at androgen, estrogen or progesterone receptors. Shows cardioprotective and anti-apoptotic effects.
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### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	(7 $\alpha$ ,11 $\alpha$ ,17 $\alpha$ )-9,11-Epoxy-17-hydroxy-3-oxo-pregn-4-ene-7,21-dicarboxylic acid $\gamma$ -lactone methyl ester
<b>Molecular Weight</b>	414.5
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>24</sub> H <sub>30</sub> O <sub>6</sub>
<b>CAS Number</b>	107724-20-9
<b>PubChem identifier</b>	443872
<b>SMILES</b>	<chem>O=C1CC[C@@]2(C)C(C[C@@H]1([C@](OC)=O)[C@]3([H])[C@@](O6)2[C@H]6C[C@@]4(C)[C@]([H])3CC[C@@]54OC(CC5)=O)=C1</chem>
<b>InChiKey</b>	JUKPWJGBANNWMW-VWBFHTRKSA-N

### References

#### Recent studies with eplerenone, a novel selective aldosterone receptor antagonist.

McMahon EG (2001) Curr Opin Pharmacol 1(2)

**PubMedID** [11714095](#)

**A new mode of mineralocorticoid receptor antagonism by a potent and selective nonsteroidal molecule.**

Fagart J *et al* (2010) J Biol Chem 285(39)

**PubMedID** [20650892](#)

**Eplerenone attenuated cardiac steatosis, apoptosis and diastolic dysfunction in experimental type-II diabetes.**

Ramărez E *et al* (2013) Cardiovasc Diabetol 12

**PubMedID** [24261558](#)

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