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DATASHEET

Eplerenone

Product overview

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

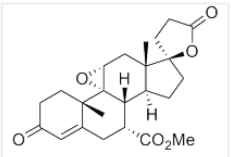
Biological Data

Biological description	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.

Solubility & Handling

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

Chemical Data

Chemical name	(7α,11α,17α)-9,11-Epoxy-17-hydroxy-3-o xo-pregn-4-ene-7,21-dicarboxylic acid γ-lactone methyl ester
Molecular Weight	414.5
Chemical structure	
Molecular Formula	$C_{24}H_{30}O_6$
CAS Number	107724-20-9
PubChem identifier	443872
SMILES	O=C1CC[C@@]2(C)C(C[C@@H]([C@](OC)=O)[C@]3([H])[C@@](O6)2[C@H]6C[C@@]4(C)[C@]([H])3CC[C@@]54OC(CC5)=O)=C1
InChiKey	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.

Ramã?rez E *et al* (2013) Cardiovasc Diabetol 12
PubMedID 24261558