

Product Data Sheet

Product Name: Eplerenone-d3

Cat. No.: GC47301

Chemical Properties

Cas. No. N/A

SMILES O=C1CC[C@@]2(C)C(C[C@@H](C(OC([2H])([2H])([2H])=O)[C@]3([H])[C@]2(O4)[C@@]4([H])C[C@@]5(C)[C@@]3([H])CC[C@]56OC(CC6)=O)=C1

Formula C₂₄H₂₇D₃O₆

M.Wt 417.5

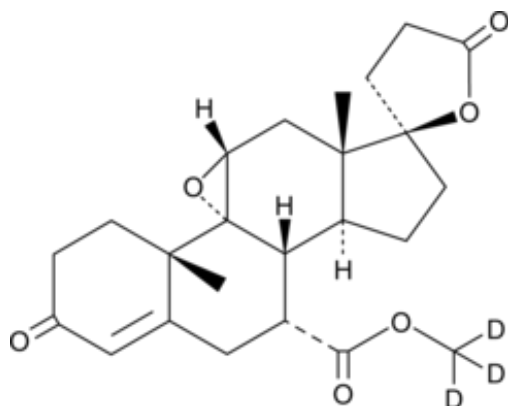
Solubility

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Eplerenone-d₃ is intended for use as an internal standard for the quantification of eplerenone by GC- or LC-MS. Eplerenone is a mineralocorticoid receptor antagonist.¹ It is selective for the mineralocorticoid receptor over glucocorticoid, androgen, progesterone, and estrogen receptors in radioligand binding assays (IC₅₀s = 138, 6,920, 523, >10,000, and 5,702 nM, respectively).

Eplerenone inhibits aldosterone-induced mineralocorticoid activity in a luciferase assay (IC₅₀ = 122 nM). *In vivo*, eplerenone (100 mg/kg per day) reduces urinary albumin secretion and glomerulosclerosis in the Dahl salt-sensitive rat model of hypertension and nephropathy. It reduces

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

myocardial IL-1 β levels and collagen deposition, as well as improves left ventricular systolic dysfunction in a mouse model of acute myocardial infarction.² Formulations containing eplerenone have been used in the treatment of hypertension and heart failure after myocardial infarction.

1. Meyers, M.J., Arhancet, G.B., Hockerman, S.L., et al. Discovery of (3S,3aR)-2-(3-chloro-4-cyanophenyl)-3-cyclopentyl-3,3a,4,5-tetrahydro-2H-benzo[g]indazole-7-carboxylic acid (PF-3882845), an orally efficacious mineralocorticoid receptor (MR) antagonist for hypertension and nephropathy. *J. Med. Chem.* 53(16)5979-6002(2010) 2. Chen, B., Geng, J., Gao, S.-X., et al. Eplerenone modulates interleukin-33/sST2 signaling and IL-1 β in left ventricular systolic dysfunction after acute myocardial infarction. *J. Interferon. Cytokine Res.* 38(3)137-144(2018)

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA