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# Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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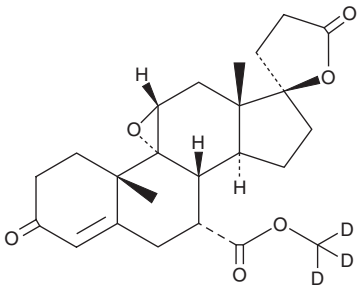
# PRODUCT INFORMATION

## Eplerenone-$d_3$

*Item No. 31610*

| | |
|---|---|
| **Formal Name:** | (7α,11α,17α)-9,11-epoxy-17-hydroxy-3-oxo-pregn-4-ene-7,21-dicarboxylic acid, γ-lactone, 7-methyl ester-$d_3$ |
| **Synonyms:** | (+)-Eplerenone-$d_3$, Epoxymexrenone-$d_3$ |
| **MF:** | $C_{24}H_{27}D_3O_6$ |
| **FW:** | 417.5 |
| **Chemical Purity:** | ≥95% (Eplerenone) |
| **Deuterium Incorporation:** | ≥99% deuterated forms ($d_1$-$d_3$); ≤1% $d_0$ |
| **Supplied as:** | A solid |
| **Storage:** | -20°C |
| **Stability:** | ≥3 years |



*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

Eplerenone-$d_3$ is intended for use as an internal standard for the quantification of eplerenone (Item No. 15616) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

### Description

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 ($IC_{50}$s = 138, 6,920, 523, >10,000, and 5,702 nM, respectively). Eplerenone inhibits aldosterone-induced mineralocorticoid activity in a luciferase assay ($IC_{50}$ = 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 myocardial IL-1β 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.

### References


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-1β in left ventricular systolic dysfunction after acute myocardial infarction. *J. Interferon. Cytokine Res.* **38(3)**, 137-144 (2018).





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