

Product Data Sheet

Product Name: (R)-Finerenone

Cat. No.: GC80862

Chemical Properties

Cas. No. 1050477-30-9

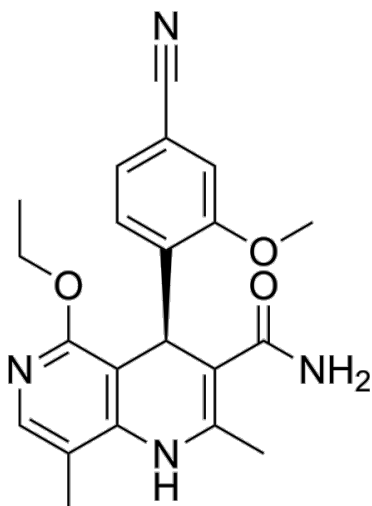
Formula $C_{21}H_{22}N_4O_3$ M.Wt 378.42

Solubility DMSO: 100 mg/mL (264.26 mM; Need ultrasonic) 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

(R)-Finerenone ((R)-BAY 94-8862) is the R-isomer of Finerenone. Finerenone is a third-generation

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

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selective, orally active, non-steroidal mineralocorticoid receptor (MR) antagonist ($IC_{50} = 18 \text{ nM}$). Compared with glucocorticoid receptors (GR), androgen receptors (AR), and progesterone receptors (AR), Finerenone shows good selectivity (> 500 -fold). Finerenone has potential application prospects in studies of heart and kidney diseases, such as type 2 diabetes and chronic kidney disease [1] [2].

In Vitro, The R-isomer typically differs in stereoconfiguration from the parent molecule and may exhibit retained or diminished activity, altered toxicity, or differences in pharmacokinetic behavior; in some chiral drugs, the R-form constitutes the primary active or toxic component.

References:

- [1]. Bärffacker L, et al. Discovery of BAY 94-8862: a nonsteroidal antagonist of the mineralocorticoid receptor for the treatment of cardiorenal diseases. *ChemMedChem*. 2012;7(8):1385-1403.
- [2]. González-Blázquez R, et al. Finerenone Attenuates Endothelial Dysfunction and Albuminuria in a Chronic Kidney Disease Model by a Reduction in Oxidative Stress. *Front Pharmacol*. 2018;9:1131. Published 2018 Oct 9.

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