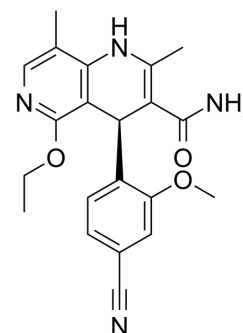


Finerenone

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-111372 | | |
| CAS No.: | 1050477-31-0 | | |
| Molecular Formula: | C ₂₁ H ₂₂ N ₄ O ₃ | | |
| Molecular Weight: | 378.42 | | |
| Target: | Mineralocorticoid Receptor | | |
| Pathway: | Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

| | | | | | |
|---|---|--------------------------|--------------|------------|------------|
| In Vitro | DMSO : 200 mg/mL (528.51 mM; Need ultrasonic) | | | | |
| | | Solvent Concentration | Mass 1 mg | 5 mg | 10 mg |
| | Preparing Stock Solutions | 1 mM | 2.6426 mL | 13.2128 mL | 26.4257 mL |
| | | 5 mM | 0.5285 mL | 2.6426 mL | 5.2851 mL |
| 10 mM | | 0.2643 mL | 1.3213 mL | 2.6426 mL | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | |
| In Vivo | <ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.50 mM); Clear solution Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.93 mg/mL (5.10 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.93 mg/mL (5.10 mM); Clear solution | | | | |

BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | Finerenone (BAY 94-8862) is a third-generation, selective, and orally available nonsteroidal mineralocorticoid receptor (MR) antagonist (IC ₅₀ =18 nM). Finerenone displays excellent selectivity versus glucocorticoid receptor (GR), androgen receptor (AR), and progesterone receptor (>500-fold). Finerenone has the potential for cardiorenal diseases research, such as type 2 diabetes mellitus and chronic kidney disease ^{[1][2]} . |
| In Vivo | Finerenone (BAY 94-8862) lowers albuminuria by >40% and significantly reduces systolic blood pressure (SBP) in Munich Wistar Frömter (MWF) rat ^[1] . |

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

| | |
|-----------------|---|
| Animal Model: | Twelve-week-old MWF rat ^[1] |
| Dosage: | 10 mg/kg |
| Administration: | P.o.; daily for 4 weeks |
| Result: | Significantly reduced SBP in MWF rats; led to a significant reduction (>40%) in albuminuria in the MWF model. |

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CUSTOMER VALIDATION

- Nature. 2023 Feb;614(7947):326-333.
- Redox Biol. 2023 Oct 24, 102946.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Bärfacker 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.

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

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