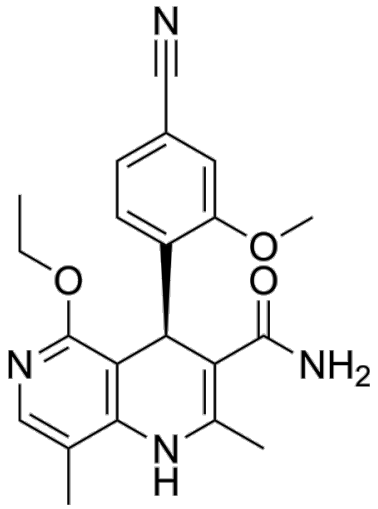
Product Data Sheet

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

selective, orally active, non-steroidal mineralocorticoid receptor (MR) antagonist (IC_{50} = 18 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]. 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.