

EMD638683 R-Form

Chemical Properties

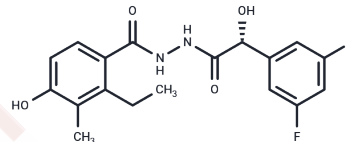
CAS No. : 1184940-47-3

Formula: C₁₈H₁₈F₂N₂O₄

Molecular Weight: 364.34

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	EMD638683 is a highly selective SGK1 inhibitor with an IC ₅₀ of 3 μM. EMD638683 (R-Form) is the R-form of this compound.
Targets(IC ₅₀)	SGK

Solubility Information

Solubility	DMSO: 180 mg/mL (494.04 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 4 mg/mL (10.98 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7447 mL	13.7234 mL	27.4469 mL
5 mM	0.5489 mL	2.7447 mL	5.4894 mL
10 mM	0.2745 mL	1.3723 mL	2.7447 mL
50 mM	0.0549 mL	0.2745 mL	0.5489 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Ackermann TF, et al. EMD638683, a novel SGK inhibitor with antihypertensive potency. Cell Physiol Biochem. 2011; 28(1):137-46.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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