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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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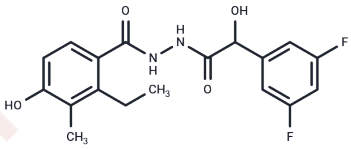
Data Sheet (Cat.No.T6635)

TargetMol

EMD638683

Chemical Properties



CAS No. : 1181770-72-8

Formula: C18H18F2N2O4

Molecular Weight: 364.34

Appearance: no data available

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

Biological Description

Description	EMD638683,a novel SGK inhibitor with antihypertensive potency(with an IC50 of 3 μM).
Targets(IC50)	SGK
In vitro	EMD638683 treatment significantly augmented the radiation-induced decrease of forward scatter, increase of phosphatidylserine exposure, decrease of mitochondrial potential, increase of caspase 3 activity, increase of DNA fragmentation and increase of late apoptosis. The in vivo development of tumors following chemical carcinogenesis was significantly blunted by treatment with EMD638683[1].
In vivo	Within 24 hours in vivo EMD638683 treatment significantly decreased blood pressure in fructose/saline-treated mice but not in control animals or in SGK1 knockout mice.?EMD638683 failed to alter the blood pressure in SGK1 knockout mice.?Following chronic (4 weeks) fructose/high salt treatment, additional EMD638683 treatment again decreased blood pressure.?EMD638683 thus abrogates the salt sensitivity of blood pressure in hyperinsulinism without appreciably affecting blood pressure in the absence of hyperinsulinism.?EMD638683 tended to increase fluid intake and urinary excretion of Na(+), significantly increased urinary flow rate and significantly decreased body weight [2].
Cell Research	Colon carcinoma (Caco-2) cells were exposed to EMD638683 with or without exposure to radiation (3 Gray) and cell volume was estimated from forward scatter, phosphatidylserine exposure from annexin V binding, mitochondrial potential from JC-9 fluorescence, caspase 3 activity from CaspGlow Fluorescein staining, DNA degradation from propidium iodide staining as well as late apoptosis from annexin-V FITC and propidium iodide double staining.?In vivo tumor growth was determined in wild type mice subjected to chemical carcinogenesis (intraperitoneal injection of 20 mg/kg 1,2-dimethylhydrazine followed by three cycles of 30 g/L synthetic dextran sulfate sodium in drinking water for 7 days)[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (137.23 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)

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.

Reference

Towhid S T , Liu G L , Ackermann T F , et al. Inhibition of Colonic Tumor Growth by the Selective SGK Inhibitor EMD638683[J]. Cellular Physiology and Biochemistry, 2013, 32(4):838-848.