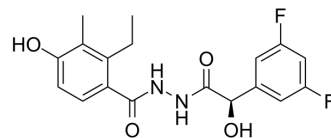


## EMD638683 R-Form

<b>Cat. No.:</b>	HY-15193A		
<b>CAS No.:</b>	1184940-47-3		
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>18</sub> F <sub>2</sub> N <sub>2</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	364.34		
<b>Target:</b>	SGK		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 66.67 mg/mL (182.99 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: 3.33 mg/mL (9.14 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: 3.33 mg/mL (9.14 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: 3.33 mg/mL (9.14 mM); Clear solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

#### Description

EMD638683 R-Form is the R-form of EMD638683. EMD638683 is a highly selective SGK1 inhibitor with IC<sub>50</sub> of 3 μM.

#### IC<sub>50</sub> & Target

SGK1<sup>[1]</sup>

### CUSTOMER VALIDATION

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- Neurobiol Dis. 2021 Feb 24;105317.
  - bioRxiv. 2020 Apr.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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

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

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