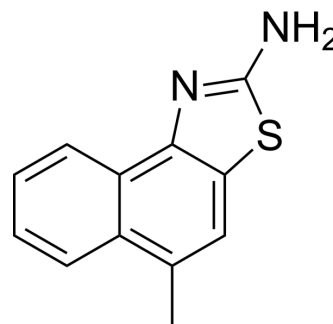


## SKA-111

<b>Cat. No.:</b>	HY-100418		
<b>CAS No.:</b>	1369170-24-0		
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>10</sub> N <sub>2</sub> S		
<b>Molecular Weight:</b>	214.29		
<b>Target:</b>	Potassium Channel		
<b>Pathway:</b>	Membrane Transporter/Ion Channel		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (466.66 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	4.6666 mL	23.3329 mL	46.6657 mL
	<b>5 mM</b>	0.9333 mL	4.6666 mL	9.3331 mL
	<b>10 mM</b>	0.4667 mL	2.3333 mL	4.6666 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (11.67 mM); Clear solution			

### BIOLOGICAL ACTIVITY

<b>Description</b>	SKA-111 is a selective activator of potassium channel K <sub>Ca</sub> 3.1, evokes K <sub>Ca</sub> 3.1 membrane hyperpolarization in porcine endothelial cell. SKA-111 is capable of improving Bradykinin (HY-P0206)-induced coronary dilations in the isolated rat heart and can be used for cardiovascular disease research <sup>[1]</sup> .
<b>In Vitro</b>	SKA-111 (1 μM, 5 min) evokes K <sub>Ca</sub> 3.1 membrane hyperpolarization in porcine endothelial cell <sup>[1]</sup> . SKA-111 (1 μM, 5 min) induces significantly augmented the Bradykinin-induced endothelium-derived hyperpolarization (EDH)-type relaxation in large porcine coronary arteries (PCA) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	SKA-111 (1 μM for cardiac perfusion) improves Bradykinin (HY-P0206)-induced coronary dilations in the isolated rat heart <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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Animal Model:	Langendorff in rat hearts [1]
Dosage:	1 $\mu$ M
Administration:	Cardiac perfusion
Result:	Potentiated significantly the fall in coronary perfusion pressure (CPP) induced by 1 nM BK in the presence of the vasoconstrictor in isolated rat hearts.

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## REFERENCES

[1]. Oliván-Viguera A, et.al. Vascular Reactivity Profile of Novel KCa 3.1-Selective Positive-Gating Modulators in the Coronary Vascular Bed. Basic Clin Pharmacol Toxicol. 2016 Aug;119(2):184-92.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA