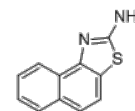


**Product Name** : SKA-31  
**Cat. No.** : PC-47099  
**CAS No.** : 40172-65-4  
**Molecular Formula** : C<sub>11</sub>H<sub>8</sub>N<sub>2</sub>S  
**Molecular Weight** : 200.259  
**Target** : Potassium Channel  
**Solubility** : 10 mM in DMSO



### Biological Activity

SKA-31 is a small molecule activator of **KCa2** and **KCa3.1** potassium channels with EC<sub>50</sub> values of 260, 2900, 2900 nM for KCa3.1, KCa2.1 and KCa2.2 respectively.

SKA-31 activated native KCa2.3 and KCa3.1 channels in murine endothelial cells, and potentiated endothelium-derived hyperpolarizing factor-mediated dilations of carotid arteries from KCa3.1(+/-) mice but not from KCa3.1(-/-) mice.

Administration of 10 and 30 mg/kg SKA-31 lowered mean arterial blood pressure by 4 and 6 mm Hg in normotensive mice and by 12 mm Hg in angiotensin-II-induced hypertension.

### References

Sankaranarayanan A, et al. *Mol Pharmacol*. 2009 Feb;75(2):281-95.

Parajuli SP, et al. *J Pharmacol Exp Ther*. 2012 Jan;340(1):114-23.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com