



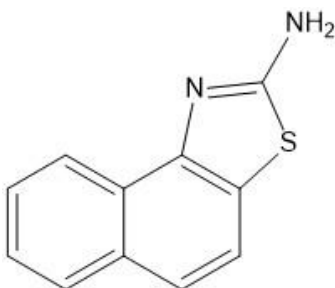
Catalog # 10-5483

SKA-31

CAS# 40172-65-4

Naphtho[1,2-*d*]thiazol-2-ylamine; 2-Aminonaphthiazole

Lot # X109663



K_{Ca}3.1 and K_{Ca}2 potassium channel activator (EC₅₀ =260, 2900, 2900 nM for K_{Ca}3.1, K_{Ca}2.1 and K_{Ca}2.2 respectively). Enhanced acetylcholine-induced EDHF dilator response in mouse carotid arteries and lowers blood pressure in mouse models at 30 mg/Kg.^{1,2} Evokes robust vasodilation in rat mesenteric arteries.³

- 1) Sankaranarayanan *et al.* (2009), *Naphtho[1,2-*d*]thiazol-2-ylamine (SKA-31), a new activator of K_{Ca}2 and K_{Ca}3.1 potassium channels, potentiates the endothelium-derived hyperpolarizing factor response and lowers blood pressure*; Mol. Pharmacol., **75** 281
- 2) Brahler *et al.* (2009), *Genetic deficit of SK3 and IK1 channels disrupts the endothelium-derived hyperpolarizing factor vasodilator and causes hypertension* ; Circulation, **119** 2323
- 3) Khaddaj-Mallat *et al.* (2018), *SKA-31, an activator of endothelial Ca²⁺-activated K⁺ channels evokes robust vasodilation in rat mesenteric arteries*; Eur. J. Pharmacol., **831** 60

PHYSICAL DATA

Molecular Weight:	200.25
Molecular Formula:	C ₁₁ H ₈ N ₂ S
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 40 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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