

Product Name: SKA 121

Catalog No.: 6398

Batch No.: 1

CAS Number: 1820708-73-3

IUPAC Name: 5-Methylnaphth[2,1-d]oxazol-2-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₀N₂O.0.1H₂O

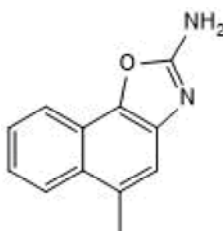
Batch Molecular Weight: 200.03

Physical Appearance: Pale pink solid

Solubility: DMSO to 100 mM
ethanol to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	72.06	5.14	14
Found	72.03	5.03	14.02

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number: 1820708-73-3

IUPAC Name: 5-Methylnaphth[2,1-d]oxazol-2-amine

Description:

Positive allosteric modulator of $K_{Ca}3.1$ (intermediate-conductance Ca^{2+} -activated potassium) channels ($EC_{50} = 109$ nM). Displays 40-fold selectivity for $K_{Ca}3.1$ over $K_{Ca}2.3$, and 200 to 400-fold selectivity over K_V and Na_V channels. Potentiates bradykinin-induced vasodilation ex vivo. Lowers mean arterial blood pressure in normotensive and hypertensive mice.

Physical and Chemical Properties:

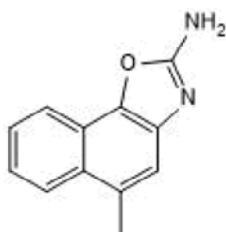
Batch Molecular Formula: $C_{12}H_{10}N_2O \cdot 0.1H_2O$

Batch Molecular Weight: 200.03

Physical Appearance: Pale pink solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



References:

Oliván-Viguera et al (2016) Vascular reactivity profile of novel $K_{Ca} 3.1$ -selective positive-gating modulators in the coronary vascular bed. *Basic Clin.Pharmacol.Toxicol.* **119** 184. PMID: 26821335.

Coleman et al (2014) New positive Ca^{2+} -activated K^+ channel gating modulators with selectivity for $K_{Ca}3.1$. *Mol.Pharmacol.* **86** 342. PMID: 24958817.

Storage: Store at $-20^{\circ}C$

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a $45-60^{\circ}C$ water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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