

Product Name: BL 1249

Catalog No.: 3797

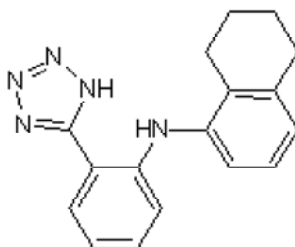
Batch No.: 1

CAS Number: 18200-13-0

IUPAC Name: 5,6,7,8-Tetrahydro-N-[2-(2H-tetrazol-5-yl)phenyl]-1-naphthalenamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₇N₅
Batch Molecular Weight: 291.35
Physical Appearance: Pale yellow crystals
Solubility: 1eq. NaOH to 100 mM
DMSO to 100 mM
ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.13 (Dichloromethane:Methanol [9:1])
HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.08	5.88	24.04
Found	69.78	5.89	24.1

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

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Description:

K_{2P}2.1 (TREK-1) and K_{2P}10.1 (TREK-2) channel opener (EC₅₀ values are 5.5 μM and 8 μM, respectively). Exhibits selectivity for bladder over vascular tissue in vitro and in vivo (EC₅₀ values are 1.26 and 21.0 μM for cultured bladder and aortic tissues respectively).

Physical and Chemical Properties:

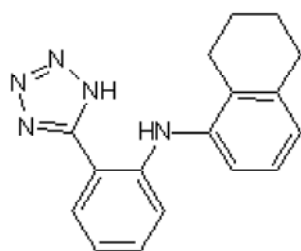
Batch Molecular Formula: C₁₇H₁₇N₅

Batch Molecular Weight: 291.35

Physical Appearance: Pale yellow crystals

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at -20°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:

1eq. NaOH to 100 mM

DMSO to 100 mM

ethanol to 100 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°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°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Pope et al (2018) Protein and chemical determinants of BL-1249 action and selectivity for K_{2P} channels. *ACS Chem.Neurosci.* **9** 3153. PMID: 30089357 .

Gonczi et al (2006) Investigation of the role of TASK-2 channels in rat pulmonary arteries; pharmacological and functional studies following RNA interference procedures. *Br.J.Pharmacol.* **147** 496. PMID: 16432512.

Tertyshnikova et al (2005) BL-1249 [(5,6,7,8-tetrahydro-naphthalen-1-yl)-[2-(1H-tetrazol-5-yl)-phenyl]-amine]: a putative potassium channel opener with bladder-relaxant properties. *J.Pharmacol.Exp.Ther.* **313** 250. PMID: 15608074.

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