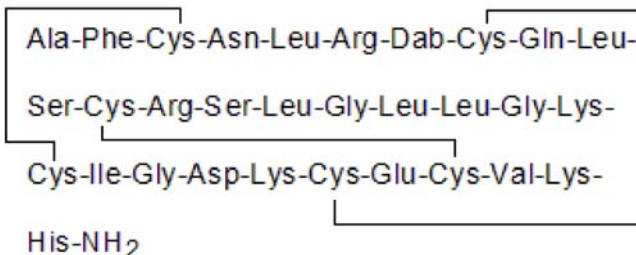


Product Name: Lei-Dab 7
CAS Number: 1061556-49-7

Catalog No.: 5571 **Batch No.:** 4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄₁H₂₃₆N₄₆O₃₉S₆
Batch Molecular Weight: 3392.06
Physical Appearance:
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence:



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

Product Name: Lei-Dab 7

Catalog No.: 5571

Batch No.: 4

CAS Number: 1061556-49-7

Description:

Lei-Dab 7 is a high affinity, selective $K_{Ca2.2}$ (SK2) channel blocker ($K_d = 3.8$ nM). Exhibits >200-fold selectivity for $K_{Ca2.2}$ over $K_{Ca2.1}$, $K_{Ca2.3}$, $K_{Ca3.1}$, IK, K_v and $K_{ir2.1}$. Increases theta-burst responses and increases LTP in rat hippocampal slices in vitro. Convulsive in vivo.

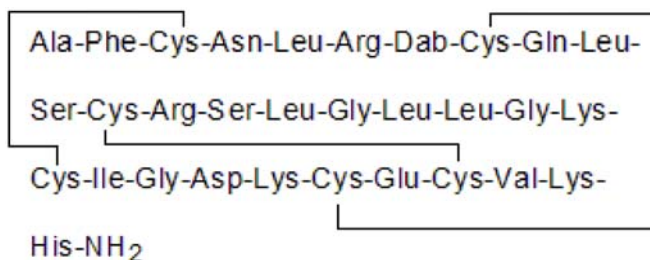
Physical and Chemical Properties:

Batch Molecular Formula: $C_{141}H_{236}N_{46}O_{39}S_6$

Batch Molecular Weight: 3392.06

Physical Appearance:

Peptide Sequence:



Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in water

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Counter Ion: TFA

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).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

References:

Kasumu *et al* (2012) Selective positive modulator of calcium-activated potassium channels exerts beneficial effects in a mouse model of spinocerebellar ataxia type 2. *Chem.Biol.* **19** 1340. PMID: 23102227.

Kramar *et al* (2004) A novel mechanism for the facilitation of theta-induced long-term potentiation by brain-derived neurotrophic factor. *J.Neurosci.* **24** 5151. PMID: 15175384.

Shakkottai *et al* (2001) Design and characterization of a highly selective peptide inhibitor of the small conductance calcium-activated K⁺ channel, SK_{Ca2} . *J.Biol.Chem.* **276** 43145. PMID: 11527975.

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