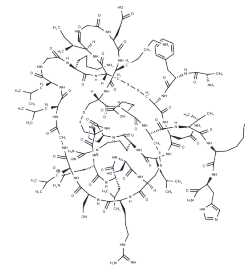


Lei-Dab7

Chemical Properties

CAS No. : 1061556-49-7
 Formula: C₁₄₁H₂₃₆N₄₆O₃₉S₆
 Molecular Weight: 3392.06
 Storage: Keep away from moisture
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	High affinity, selective KCa _{2.2} (SK ₂) channel blocker (K _d = 3.8 nM). Exhibits >200-fold selectivity for KCa _{2.2} over KCa _{2.1} , KCa _{2.3} , KCa _{3.1} , IK, Kv and Kir _{2.1} . Increases theta-burst responses and increases LTP in rat hippocampal slices in vitro. Convulsive in vivo.
Targets(IC ₅₀)	Potassium Channel

Solubility Information

Solubility	H ₂ O: 1 mg/mL (0.29 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2948 mL	1.474 mL	2.9481 mL
5 mM	0.059 mL	0.2948 mL	0.5896 mL
10 mM	0.0295 mL	0.1474 mL	0.2948 mL
50 mM	0.0059 mL	0.0295 mL	0.059 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Shakkottai et al (2001) Design and characterization of a highly selective peptide inhibitor of the small conductance calcium-activated K⁺ channel, SkCa2. J.Biol.Chem. 276 43145 PMID:

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:

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:

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