

mSIRK

Chemical Properties

CAS No. : 593267-11-9

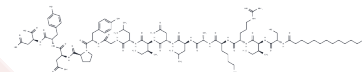
Formula: C₉₃H₁₅₀N₂₀O₂₅

Molecular Weight: 1948.31

Keep away from moisture, Store at low temperature

Storage: Store at -20°C

Actual storage temperature shall be subject to the COA.



Biological Description

Description	mSIRK (G-Protein β Binding Peptide) is a cell-permeable activator of ERK 1/2 with an EC ₅₀ of 2.5-5 μ M. It disrupts the interaction between the α and β subunits, facilitating α subunit dissociation without inducing nucleotide exchange [1].
Targets(IC ₅₀)	ERK

Solubility Information

Solubility	DMSO: 100 mg/mL (51.33 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: < 10 mg/mL (5.13 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Saline: < 10 mg/mL (5.13 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Corn oil: 10 mg/mL (5.13 mM), Solution. 10% DMSO+90% (20% SBE- β -CD in Saline): < 10 mg/mL (5.13 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5133 mL	2.5663 mL	5.1327 mL
5 mM	0.1027 mL	0.5133 mL	1.0265 mL
10 mM	0.0513 mL	0.2566 mL	0.5133 mL
50 mM	0.0103 mL	0.0513 mL	0.1027 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

Farida Goubaeva, et al. Stimulation of Cellular Signaling and G Protein Subunit Dissociation by G Protein β Subunit-binding Peptides. J Biol Chem. 2003 May 30;278(22):19634-41.

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