

Ras Inhibitory Peptide

Chemical Properties

CAS No. : 159088-48-9

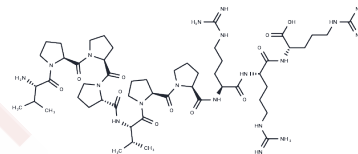
Formula: C53H91N19O11

Molecular Weight: 1170.433

Keep away from moisture

Storage: 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	Son of sevenless homolog 1 (Sos1) is a guanine nucleotide exchange factor (GEF) that directs the exchange of Ras-GDP to Ras-GTP by binding to SH3 domains of the growth factor receptor-bound protein 2 (Grb2), leading to the activation of ERK. Ras inhibitory peptide is a synthetic peptide that contains the sequence PVPPR, which corresponds to a region within human Sos1 that interacts with an SH3 domain of Grb2. It specifically blocks the interaction of the GEF with Grb2, preventing an interaction that is essential for Ras activation by receptor tyrosine kinases, including epidermal growth factor receptor.
Targets(IC50)	Others,Ras

Solubility Information

Solubility	DMSO: 30 mg/mL (25.63 mM),Sonication is recommended. PBS (pH 7.2): 10 mg/mL (8.54 mM),Sonication is recommended. DMF: 30 mg/mL (25.63 mM),Sonication is recommended. Ethanol: Miscible (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8544 mL	4.2719 mL	8.5439 mL
5 mM	0.1709 mL	0.8544 mL	1.7088 mL
10 mM	0.0854 mL	0.4272 mL	0.8544 mL
50 mM	0.0171 mL	0.0854 mL	0.1709 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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