

iRGD peptide 1 TFA

Chemical Properties

CAS No. :

Formula: C37H60F3N13O16S2

Molecular Weight: 1064.08

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	iRGD Peptide 1 TFA is a prototypic tumor-homing peptide with tissue-penetrating capabilities, facilitating deep delivery of therapeutic agents into extravascular tumor tissue. Additionally, it possesses anti-metastatic activity [1].
In vitro	The iRGD peptide 1 (iRGD) attenuates tumor cell migration and elicits chemorepulsion in vitro, contingent upon CendR and NRP-1 pathways. This peptide precipitates marked retraction of cell extensions and partial cell detachment, contributing to its repellent effect. Such responses are notably accentuated upon fibronectin exposure, implying CendR's instrumental role in modulating integrin activity [1].
In vivo	The iRGD peptide 1 (CRGDKGPDC; 4 µmol/kg; intravenous; qod; 21 days) effectively suppresses spontaneous metastasis in mice [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9398 mL	4.6989 mL	9.3978 mL
5 mM	0.188 mL	0.9398 mL	1.8796 mL
10 mM	0.094 mL	0.4699 mL	0.9398 mL
50 mM	0.0188 mL	0.094 mL	0.188 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

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