

GRGDSP acetate(91037-75-1 free base)

Chemical Properties

CAS No. :

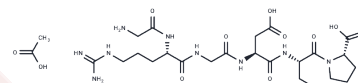
Formula: C₂₄H₄₁N₉O₁₂

Molecular Weight: 647.64

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	GRGDSP acetate(91037-75-1 free base) is a synthetic linear RGD peptide and is an integrin inhibitor.
Targets(IC50)	Integrin
In vitro	As a synthetic linear RGD peptide, GRGDSP (Gly-Arg-Gly-Asp-Ser-Pro) acetate can inhibit the adherence of tumor cells to endothelial cells of blood vessels and limit its metastasis [1]. GRGDSP (Gly-Arg-Gly-Asp-Ser-Pro) acetate is used as a soluble integrin-blocking RGD-based peptide. GRGDSP acetate is used widely together with other RGD peptides in integrin research. GRGDSP acetate can be used to modify the surface of cardiovascular implants such as vascular grafts to promote endothelialization[2].

Solubility Information

Solubility	H ₂ O: 125 mg/mL (193.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5441 mL	7.7203 mL	15.4407 mL
5 mM	0.3088 mL	1.5441 mL	3.0881 mL
10 mM	0.1544 mL	0.772 mL	1.5441 mL
50 mM	0.0309 mL	0.1544 mL	0.3088 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

Qian J, et al. Transarterial administration of integrin inhibitor loaded nanoparticles combined with transarterial chemoembolization for treating hepatocellular carcinoma in a rat model. World J Gastroenterol. 2016 Jun 7;22(21):5042-9.

Patel S, et al. Regulation of endothelial cell function by GRGDSP peptide grafted on interpenetrating polymers. J Biomed Mater Res A. 2007 Nov;83(2):423-33.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481