

Cyclo(RGDyK) trifluoroacetate

Chemical Properties

CAS No. : 250612-42-1

Formula: C₃₁H₄₃F₆N₉O₁₂

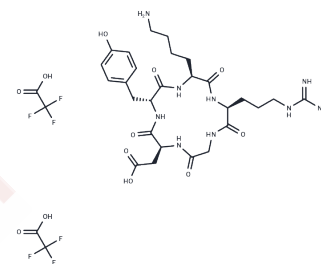
Molecular Weight: 847.72

Storage:

Keep away from moisture, Keep away from direct sunlight, Store at low temperature

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	Cyclo(RGDyK) trifluoroacetate is a potent and selective α V β 3 integrin inhibitor with an IC ₅₀ of 20 nM.
Targets(IC ₅₀)	Integrin
In vitro	Cyclo(RGDyK) shows high affinity and selectivity for α V β 3 over α V β 5 and α IIb β 3. [1] Cyclo(RGDyK)-conjugated micelles (TPM) facilitated the cell-specific uptake of Dil into B16-F10 cells and HUVECs via integrin-mediated endocytosis compared with Cyclo(RGDyK)-free micelles (NPM). [2]
In vivo	In apoE ^{0/0} mice, Cyclo(RGDyK) (1 nmol, i.v.) inhibits the increase of α V β 3 integrin expression in the intima of the left stenotic carotid artery. [2]

Solubility Information

Solubility	DMSO: 130 mg/mL (153.35 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: 4 mg/mL (4.72 mM), Sonication is recommended. <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	1.1796 mL	5.8982 mL	11.7963 mL
5 mM	0.2359 mL	1.1796 mL	2.3593 mL
10 mM	0.118 mL	0.5898 mL	1.1796 mL
50 mM	0.0236 mL	0.118 mL	0.2359 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

Haubner R, et al. J Nucl Med. 2001, 42(2), 326-336.

Yin J, et al. J Drug Target. 2011, 19(1), 25-36.

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