

Cyclo(RGDyK)

Chemical Properties

CAS No.:	217099-14-4
Formula:	C ₂₇ H ₄₁ N ₉ O ₈
Molecular Weight:	619.67
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Cyclo(RGDyK) is a potent and selective α V β 3 integrin inhibitor with IC ₅₀ of 20 nM.
Targets(IC ₅₀)	α V β 3 integrin: None
In vitro	Cyclo(RGDyK) (c(RGDyK(SAA)) shows high affinity and selectivity for α V β 3 over α V β 5 (IC ₅₀ =4000 nM) and α IIb β 3 (IC ₅₀ =3000 nM)[1].
In vivo	Cyclo(RGDyK) (c(RGDyK(SAA)) shows high affinity and selectivity for α V β 3 over α V β 5 (IC ₅₀ =4000 nM) and α IIb β 3 (IC ₅₀ =3000 nM)[1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.614 mL	8.069 mL	16.138 mL
5 mM	0.323 mL	1.614 mL	3.228 mL
10 mM	0.161 mL	0.807 mL	1.614 mL
50 mM	0.032 mL	0.161 mL	0.323 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Haubner R, et al. Glycosylated RGD-containing peptides: tracer for tumor targeting and angiogenesis imaging with improved biokinetics. J Nucl Med. 2001 Feb;42(2):326-36.

Inhibitors · Natural Compounds · Compound Libraries

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