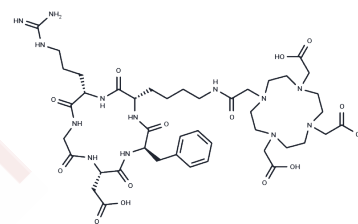


## DOTA-cyclo(RGDfK)

### Chemical Properties

CAS No. :	909024-55-1
Formula:	C43H67N13O14
Molecular Weight:	990.07
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



### Biological Description

Description	DOTA-cyclo(RGDfK) is a DOTA-like chelator peptide consisting of a dimer of the peptide cross-linker DOTA and the cyclic peptide RGDfK, which preferentially targets the $\alpha\beta3$ integrin receptor expressed on tumor cell membranes, allowing for the preparation of radionuclide coupled compounds (RDCs) and their use in cancer diagnostics and therapy.
Targets(IC50)	Integrin

### Solubility Information

Solubility	DMSO: 20 mg/mL (20.2 mM), Sonication and heating are recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.010 mL	5.0501 mL	10.1003 mL
5 mM	0.202 mL	1.010 mL	2.0201 mL
10 mM	0.101 mL	0.505 mL	1.010 mL
50 mM	0.0202 mL	0.101 mL	0.202 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

Deepak P, et al. c(RGDfK) anchored surface manipulated liposome for tumor-targeted tyrosine kinase inhibitor (TKI) delivery to potentiate liver anticancer activity. Int J Pharm. 2023 Jul 25;642:123160.

Zeller Meidell K, et al. RGDfK-functionalized gold nanorods bind only to activated platelets. J Biomed Mater Res A. 2017 Jan;105(1):209-217.

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