

RGD Peptide

PRODUCT DESCRIPTION

RGD Peptide is a synthetic tripeptide corresponding to the minimal cell recognition sequence found in extracellular matrix proteins such as fibronectin, vitronectin, and fibrinogen. It functions as a ligand for the integrin family of transmembrane receptors--including alphavbeta3, alpha5beta1, and alphavbeta5 subtypes--mediating cell adhesion, migration, proliferation, and survival signaling. Widely utilized in tissue engineering, targeted drug delivery, molecular imaging, and the functionalization of hydrogels, scaffolds, and nanoparticle systems.

PRODUCT SPECIFICATIONS

Catalog Number	BPT2882
CAS Number	99896-85-2
Molecular Weight	346.34 Da
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

Arg-Gly-Asp

Three-Letter Code:

H-Ala-{D-Arg}-{D-Gly}-Gly-{D-Leu}-{D-Tyr}-Ala-{D-Ser}-{D-Pro}-OH

RESEARCH APPLICATIONS

Application	Cell adhesion
Biomarker Target	Integrin Receptors (alphavbeta3, alpha5beta1)
Research Area	Cell Biology
Sub-category	Integrin Signaling & Cell Adhesion

STORAGE & HANDLING

Storage Temperature	-20 deg C
Form	Lyophilized
Stability	Lyophilized product stable for 24 months at -20 deg C
Reconstitution	Reconstitute in sterile water or appropriate buffer
After Reconstitution	Aliquot and store at -20 to -80 deg C
Avoid	Repeated freeze-thaw cycles

AVAILABLE SIZES

Size Options	1 mg, 10 mg
Usage	Research use

QUALITY CONTROL

Purity Method	HPLC, Mass Spectrometry (MS)
Identity	Confirmed by ESI-MS or MALDI-TOF
Purity	Peak Area by HPLC >=95%
Documentation	Certificate of Analysis (CoA) available upon request