

Product Specification Sheet

Cat. SP-52307-1	RGDV (Arg-Gly-Asp-Val) peptide	SIZE: 5 mg
Cat. SP-52306-5	RGDS (Arg-Gly-Asp-Ser)peptide	SIZE: 5 mg
Cat. SP-52305-1	RGD (Arg-Gly-Asp)peptide	SIZE: 5 mg
Cat. SP-52304-1	RFDS (Arg-Phe-Asp-Ser)peptide	SIZE: 5 mg

Integrins are heterodimeric cell surface receptors that were found in early studies to mediate adhesion between cells and the extracellular matrix (ECM), by binding to ligands with an exposed arginine-glycine-aspartate (RGD) sequence. These receptors also stimulate intracellular signaling and gene expression involved in cell growth, migration, and survival. These same processes, if not properly regulated, can lead to thrombosis, inflammation, and cancer. In fact, integrins have been demonstrated to be participants in these diseases and can also act as disease markers. Because of this, research has focused on developing RGD peptides that could mimic cell adhesion proteins and bind to integrins. The diverse applications for these peptides include inhibiting apoptosis, angiogenesis, and tumor formation, coating surfaces for use as biomaterials, enhancing drug delivery systems, and imaging for diagnostic purposes.

ADI offers a variety of RGDS modified peptides. RGD peptides are proving to be promising new tools for drug therapy and imaging of tumors, thrombosis, and inflammatory-related diseases. Peptides International provides the proper tools for further exploration and manipulation of this intriguing group of peptides for research applications.

Source of Peptide

Cat# SP-52305-1 **RGD peptide**

Sequence	Arg-Gly-Asp (R-G-D)
MW	346.3
Formula	C ₁₂ H ₂₂ N ₆ O ₆
Purity	>95%
Form	Powder

Cat# SP-52306-5 (RGDS peptide)

Sequence	Arg-Gly-Asp-ser (R-G-D-S)
MW	433.4
Formula	C ₁₅ H ₂₇ N ₇ O ₈
Purity	>95%
Form	Powder

Cat# SP-52307-1 (RGDV peptide)

Sequence	Arg-Gly-Asp-Val (R-G-D-V)
MW	445.5
Formula	C ₁₇ H ₃₁ N ₇ O ₇
Purity	>95%
Form	Powder

Cat# SP-52304-1 (RFDS peptide)

Sequence	Arg-Phe-Asp-Ser (R-F-D-S)
MW	523.5
Formula	
Purity	>95%
Form	Powder

Solubility: Dissolve peptides in DMF at 1-5 mg/ml and then dilute in other buffers. Alternatively, some peptides can also be dissolve in water or buffers depending upon the solubility in a given buffer.

Form & Storage of Antibodies/Peptide Control

Storage

Short-term: unopened, undiluted liquid vials at -20°C and powder at 4°C or -20°C.

Long-term: at -20°C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20°C or below.

Shipping: 4°C for solutions and room temp for powder

General References: Yip KP (1997) Am. J. Physiol 273, F768; Reed J (1988) Eur. J. Biochem. 178, 141; Gartner TK (1985) JBC 260, 11891;

*This product is for in vitro research use only.

Related Items

Angiotensin I, II, and III and antibodies

Antibodies to angiotensin receptors type I and II

SP-52305-1

10712A

India Contact:

Life Technologies (India) Pvt. Ltd.