



# SZABO SCANDIC

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## Produktinformation



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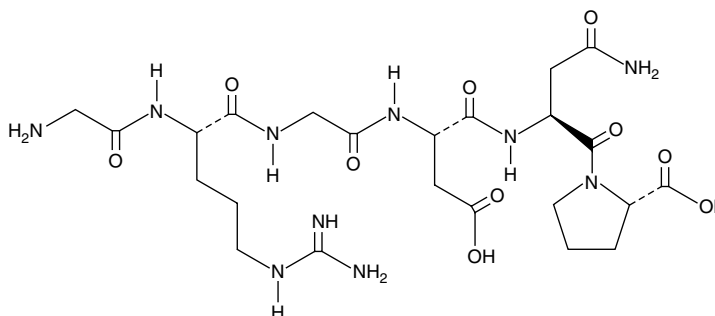
# Product Information



## RGD Peptide

Item No. 14501

**CAS Registry No.:** 114681-65-1  
**Formal Name:** glycyl-L-arginylglycyl-L- $\alpha$ -aspartyl-L-asparaginyl-L-proline  
**Synonyms:** GRGDNP, H-Gly-Arg-Gly-Asp-Asn-Pro-OH  
**MF:**  $C_{23}H_{38}N_{10}O_{10}$   
**FW:** 614.6  
**Purity:**  $\geq 95\%$   
**Stability:**  $\geq 2$  years at  $-20^{\circ}\text{C}$   
**Supplied as:** A crystalline solid



### Laboratory Procedures

For long term storage, we suggest that RGD peptide be stored as supplied at  $-20^{\circ}\text{C}$ . It should be stable for at least two years.

RGD peptide is supplied as a crystalline solid. A stock solution may be made by dissolving the RGD peptide in the solvent of choice. RGD peptide is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of RGD peptide in these solvents is approximately 5 and 14 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of RGD peptide can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of RGD peptide in PBS, pH 7.2, is approximately 0.33 mg/ml. We do not recommend storing the aqueous solution for more than one day.

RGD peptide is a synthetic compound made up of the arginine-glycine-aspartate motif that has been extensively used to inhibit integrin-ligand interactions in studies related to cell adhesion, migration, growth, and differentiation.<sup>1</sup> RGD peptide has also been shown to directly induce apoptosis, independent of integrin-mediated cell clustering or signals, by initiating conformational changes that enhance pro-caspase-3 activation and autoprocessing.<sup>2,3</sup>

### References

1. Ruoslahti, E. and Öbrink, B. Common principles in cell adhesion. *Exp. Cell Res.* **227**, 1-11 (1996).
2. Buckley, C.D., Pilling, D., Henriquez, N.V., *et al.* RGD peptides induce apoptosis by direct caspase-3 activation. *Nature* **397**, 534-539 (1999).
3. Adderley, S.R. and Fitzgerald, D.J. Glycoprotein IIb/IIIa antagonists induce apoptosis in rat cardiomyocytes by caspase-3 activation. *J. Biol. Chem.* **275**, 5760-5766 (2000).

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