

# Product Data Sheet



Product Name *3-D Life* RGD Peptide

Catalog Number 09-P-001

**Description** RGD sequences are motifs on extracellular matrix proteins promoting adhesion to cellular integrin receptors. The *3-D Life* RGD Peptide contains a RGD motif and a thiol group on the N-terminus. The thiol group is used to immobilize the peptide on thiol-reactive polymers in *3-D Life* Hydrogels. The immobilized peptide promotes adhesion of cells carrying the appropriate integrin receptor.

For instructions, please consult General Protocols GP-1 "Preparation of *3-D Life* Fast Gelling Hydrogels" or GP-2 "Preparation of *3-D Life* Slow Gelling Hydrogels" and the *3-D Life* Hydrogels User Guide on [www.cellendes.com](http://www.cellendes.com).

Quantity 1 µmol

Components

Material	Quantity	Concentration of reactive groups	Storage
● RGD Peptide, lyophilized	1 µmol	20 mmol/L*	Lyophilisate and after reconstitution: -20°C to -80°C
○ Water	600 µl	n/a	RT to -80°C

All materials are filter-sterilized.

\*Volume/concentration after reconstitution of lyophilisate.

Reconstitution RGD Peptide:

1. Briefly centrifuge vial containing the RGD Peptide lyophilisate to make sure that the entire product is at the bottom of the reaction tube.
2. Add 48 µl *3-D Life* Water per tube of RGD Peptide to dissolve the lyophilisate at a concentration of 20 mmol/L thiol groups.
3. Close tube and briefly vortex.
4. Incubate for 5 min.
5. Briefly vortex and centrifuge again.
6. The RGD Peptide is now ready for use.

Pept. Sequence Acetyl-Cys-Doa\*-Doa-Gly-Arg-Gly-Asp-Ser-Pro-NH<sub>2</sub>

\*: Doa:8-amino-3,6-dioxaoctanoic acid

Molar Mass 1022 g/mol

Purity >90% (HPLC)

*Intended for research use only. Not for use in human therapeutic or diagnostic applications.*