

# Product Data Sheet



Product Name *3-D Life* Scrambled RGD Peptide

Catalog Number 09-P-003

**Description** RGD sequences are motifs on extracellular matrix proteins promoting adhesion to cellular integrin receptors. The *3-D Life* Scrambled RGD Peptide contains a scrambled RGD motif and a thiol group on the N-terminus. The thiol group is used to immobilize the peptide on maleimide polymers in *3-D Life* Hydrogels. The immobilized peptide is used in control experiments to determine the specificity of cell adhesion caused by a genuine RGD peptide (e.g. *3-D Life* RGD Peptide).

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   |
|------------|--------------------------------------|----------|----------------------------------|---|
|            | ● Scrambled RGD peptide, lyophilized | 1 µmol   | 20 mmol/L*                       | Lyophilisate and after reconstitution: -20°C or lower |
|            | ○ Water                              | 600 µl   | n/a                              | Room temperature or lower                             |

All materials are filter-sterilized.

**Reconstitution** Scrambled RGD Peptide:

1. Briefly centrifuge vial containing the Scrambled RGD Peptide lyophilisate to make sure that entire product is at the bottom of the reaction tube.
2. Add 48 µl *3-D Life* Water per tube of Scrambled RGD Peptide to dissolve 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 Scrambled RGD Peptide is now ready for use.

**Pept. Sequence** Acetyl-Cys-Doa\*-Doa-Gly-Arg-Asp-Gly-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.*