

Product Data Sheet



Product Name *3-D Life* GFOGER-3 Peptide

Catalog Number P12-3

Description The *3-D Life* GFOGER-3 Peptide spontaneously forms stable triple helices like those in fibrillar collagens including collagen type I, II, IV and XI [1-2]. Its amino acid sequence is derived from the triple helical building block, promoting cell adhesion through integrin receptors, including $\alpha 1\beta 1$ and $\alpha 2\beta 1$, $\alpha 10\beta 1$, and $\alpha 11\beta 1$ [3]. At each end the peptide is modified with a SH-group which binds to the SH-reactive group of *3-D Life* polymers. Once hydrogels are formed by crosslinking the polymers with *3-D Life* crosslinkers, the immobilized peptide promotes adhesion of cells carrying the appropriate integrin receptors. GFOGER-3 mediates cell adhesion within the gel or on top of the gel. For instructions of hydrogel preparations, please consult General Protocol GP-2 "Preparation of *3-D Life* Slow Gelling Hydrogels" and General Protocol GP-4 "Preparation of *3-D Life* Hyaluronic Acid Hydrogels". For general information consult the *3-D Life* Hydrogels User Guide on www.cellendes.com.

Quantity 7.2 mg (3x 2.4 mg)

Components

Material	Quantity	Concentration of reactive groups	Storage
 GFOGER-3 Peptide, lyophilized	3x 120 μ l*	20 mg/ml*	Lyophilisate and after reconstitution: -70°C
 Water	600 μ l	n/a	Room temperature or lower

All materials are filter-sterilized.

* Volume/concentration after reconstitution of lyophilisate

Reconstitution GFOGER-3 Peptide:

1. Briefly centrifuge vial containing the GFOGER-3 Peptide lyophilisate to make sure that the entire product is at the bottom of the reaction tube.
2. Add 115 μ l *3-D Life* Water per tube of GFOGER-3 Peptide to dissolve the peptide at a concentration of 20 mg/ml.
3. Close tube and briefly vortex.
4. Incubate for 1 hour on ice or 4°C.
5. Briefly vortex again and centrifuge.
6. The peptide is now ready for use.
7. Keep on ice during use.

References

- [1] Khoshnoodi, J. et al. *Microsc. Res. Tech.* 71(5):357-370 (2008)
- [2] Siljander P. R.-M. et al. *J Biol. Chem.* 279(46):47763-47772 (2004)
- [3] Humphries, J. D. et al. *J. Cell Sci.* 119(19):3901-3903 (2006)

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