Product Data Sheet



Product Name 3-D Life CD-HyLink

Catalog Number

L80-1

Description

CD-HyLink consists of hyaluronic acid carrying thiol groups along its backbone. When combined with SG-Dextran of the *3-D Life* Hydrogel system, thiol groups on CD-HyLink form stable thioether bonds with the thiol-reactive groups on the polymer, which results in the formation of the hydrogel.

CD-HyLink contains a matrix metalloproteinase (MMP)-cleavable peptide sequence (Pro-Leu-Gly-Leu-Trp-Ala), which is cleaved by a broad range of MMPs including MMP1, MMP2, MMP3, MMP7, MMP9 and MMP13 [1, 2, 3]. It allows cells to locally degrade the hydrogel.

Note: Dextran hydrogels crosslinked with CD-HyLink cannot be dissolved by the addition of dextranase (*3-D Life* Dextranase, Cat. No. D10-1).

For using this product please consult General Protocol GP-4B "Preparation of *3-D Life* Hyaluronic Acid (CD-HA) Hydrogels containing a matrix metalloproteinase cleavage site" and the *3-D Life* Hydrogels User Guide on www.cellendes.com.

Quantity

Sufficient for 1.6 ml hydrogel of a crosslinking strength of 1.2 mmol/l when used with SG-Dextran of the 3-D Life Hydrogel system.

Components

Material	Quantity	Concentration of reactive groups	Storage
CD-HyLink, freeze- dried	200 μL	10 mmol/L* thiol groups	Lyophilisate and after reconstitution: -70°C
Water	600 µl	n/a	Room temperature or lower

All materials are filter-sterilized.

Reconstitution

- 1. Briefly centrifuge vial containing CD-HyLink lyophilisate to make sure that the entire material is at the bottom of the reaction tube.
- 2. Add 188 µl 3-D Life Water for a concentration of 10 mmol/L thiol groups.
- 3. Close tube and briefly vortex.
- 4. Incubate for 60 min at room temperature.
- 5. Briefly vortex and centrifuge again.
- 6. CD-HyLink is now ready for use.

Notes

After reconstitution, CD-HyLink is a viscous solution. Low binding pipet tips are recommended for accurate pipetting up to 20 μ l. For volumes above 20 μ l use wide orifice pipet tips.

References

- [1] Knight, C. G. et al. FEBS 296:263-66 (1992).
- [2] Patterson, J. and Hubbell, J. A. Biomaterials 31, 7836-7845 (2010).
- [3] Deng, S. et al. J. Biol. Chem. 275, No. 40, 31422-31427 (2000).

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

^{*}Volume/concentration after reconstitution of lyophilisate.