RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross,GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Certificate of Analysis and Data Sheet

Native Mouse Collagen I/III

Catalog No.
DS-01-0058

Species
Mouse

Preparation

Preparation: Pepsin treatment, acetic acid extraction, serial salt precipitations.

Reconstitution

Use 0.05-0.5 M acetic acid, pH 2.5 at 4ºC. Dissolved collagen retains immunologic properties of native collagen types I+III. Thermal denaturation converts dissolved collagen to gelatin.

Note: Murine collagen type I 45%, Murine collagen type III 45%, Murine collagen type IV 10%, Murine collagen type V <1%, Non-collagenous proteins <0.5%, M[a1(I)1a2(I)2]. Native triple helix.

Applications

Table Summary of Protein Applications and Working Conditions

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	.			
Western Blotting			.	
IHC			.	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

Formulation

Product Form: Purified protein from murine tail tendons - lyophilized
Buffer Solution: Essentially salt free
Preservative Stabilizers: None present.
Molecular Weight: 300 kDa

RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross,GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Purity

Purity and retention of native helical structure was controlled by SDS-PAGE, ORD measurement and ability to form microfibrils.

Storage

Prior to reconstitution store at +4°C. After reconstitution store at -20°C.
Storage in frost-free freezers is not recommended. This product should be stored undiluted.
Avoid repeated freezing and thawing as this may denature the antibody.
Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life: 18 months from date of dispatch

References

1. Rhodes, R. K. & Miller, E. J. (1978) Physicochemical characterization and molecular organization of the collagen A and B chains Biochemistry 17: 3442 - 3448