Collagen Substrate, FITC Conjugate. Purified Protein

Extracted from bovine skin

Background

FITC-labeled bovine type I is an excellent substrate for examining collagenase activity. This labelled substrate is highly purified and telopeptide free and is supplied lyophilized. To minimize background levels in collagenase assays, FITC-labeled collagen has been enzymatically pretreated and further purified by ion-exchange chromatography.

FITC-labeled collagen can also be used as a substrate for cell culture. Collagen degradation products in the culture supernatants can be directly determined by measured the flourescence at 520 nm (Emission)/490 nm (Excitation).

Ordering Information

Catalog Number
X1098

Size
10 mg

Customer Storage
Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

Formulation
Provided as a 1 mg/ml solution in 0.01M acetic acid.

Ship Conditions
Ship at ambient temperature, freeze upon arrival

Stability
Stable in acidic buffer when stored at -20°C, however slowly degrades when

Concentration
See vial for concentration

Source
Bovine skin

Activity

Used for the assay of mammalian collagenase activity. To heat denature collagen for preparing a substrate for gelatinase, transfer collagen solution to a brown glass bottle and heat to 80°C.

Purity

>95%

References

1. Terato, K., et al. “A rapid assay method of collagenase activity using 14C-labeled soluble collagen as substrate.” Biochim. Biophys. Acta 1976, 445, 753-762

2. Sellers, A., et al. “Evidence that latent collagenases are enzyme-inhibitor complexes.” Biochem. J. 1977, 163, 303-307

3. Shinkai, H., et al. “A complex of collagenase with low molecular weight inhibitors in the culture medium of embryonic chick skin explants.” J. Biochem. (Tokyo) 1977, 81, 261-263

4. Shinkai, H. & Nagai, Y., “A latent collagenase from embryonic human skin explants.” J. Biochem. (Tokyo) 1977, 81, 1261-1263

5. Murawaki, Y., et al. “Serum collagenase activity in patients with chronic liver disease.” J. Hepatol. 1993, 328 -334

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