



Product Information Sheet

Product Name:	Collagen Type I, FITC-conjugated * Water insoluble*
Catalog Number:	AS-85102
Size:	5 mg
Fluorescence:	Excitation/Emission wavelength= 490 nm/520 nm
Storage:	Collagen type I, FITC-conjugated, is supplied as a lyophilized powder. It is stable for at least one year when stored desiccated at -20°C .
Instruction:	<p>Collagen type I is the major collagen existing in skin, bone, tendon and other fibrous connective tissues. Its fundamental structural unit is tropo-collagen, a 300-kDa triple helix rod formed by three polypeptide α chains. In tendons, tropo-collagens group as collagen fibrils, run parallel to the axis, and have extensive crosslinkages.</p> <p>This product is prepared from bovine achilles tendon and then heavily labeled with FITC. It is insoluble in water, aqueous buffers, and organic solvents and may be mechanically minced when preparing it for enzymatic reaction.</p> <p>A proteolytic degradation assay¹ can be performed by incubation of the FITC labeled collagen type I with collagenase in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM CaCl_2, for 16-24 h at 37°C. Centrifuge the sample at 10,000 $\times g$ for 10 min. Collect the supernatant for fluorescence measurement at Ex/Em=490 nm/520 nm.</p> <p>For <i>in vitro</i> research use only</p>

References

1. M. N. Sela, D. Kohavi, E. Krausz, D. Steinberg, G. Rosen, *Clin.Oral Implants.Res.* 14, 263-268 (2003).