

FITC-Bovine Type I Collagen

Catalog # 4001

For Research Use Only - Not Human or Therapeutic Use

DESCRIPTION:	FITC-labeled bovine type I collagen
APPLICATION:	Use as a substrate for assaying mammalian collagenase activity
QUANTITY:	10 mL
FORM:	1 mg/mL solution in 0.01M acetic acid
SOURCE:	Bovine skin
MOLECULAR WEIGHT:	300 Kd Molar ratio of collagen:FITC is approximately 1:1
PURITY:	>99% by SDS-PAGE Background value is less than 0.1% (free fluorescence intensity (FI) extracted with 35% ethanol at 25°C).
SOLUBILITY:	FITC-bovine type I collagen is soluble in acidic buffer (maximum 4 mg/mL), but difficult to dissolve in neutral buffer. In order to dissolve in neutral buffer, dissolve in 0.01M acetic acid at 4 mg/mL, and then add into neutral buffer (final NaCl concentration should be 0.15-0.2M). FITC-bovine type I collagen forms stable gel in neutral buffer and can be used as a substrate for assaying collagenase activity by collagen-gel method.
STORAGE TEMPERATURE:	-20°C in the dark Collagen will form insoluble gel and degrade under neutral conditions during long-term storage at 4°C.
STABILITY:	1 year
REFERENCES:	Terato, et al. Biochem. Biophys. Acta 445: 753-762 (1976) Terato, et al. Biomedical Res. 3: 495-505 (1982)