

## 32-17821: Recombinant Human MMP13 Protein, hFc Tag

**Uniprot ID :** P45452

**Alternative Name :** MMP-13, Collagenase 3, Matrix metalloproteinase-13

### Description

Molecular Characterization: MMP13(Leu20-Cys471) hFc(Glu99-Ala330)

Molecular weight: The protein has a predicted molecular mass of 77.8 kDa after removal of the signal peptide. The apparent molecular mass of MMP13-hFc is approximately 70-100 kDa due to glycosylation.

Description: Recombinant human MMP13 Protein with C-terminal Human Fc tag

This gene encodes a member of the peptidase M10 family of matrix metalloproteinases (MMPs). Proteins in this family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. The encoded preproprotein is proteolytically processed to generate the mature protease. This protease cleaves type II collagen more efficiently than types I and III. It may be involved in articular cartilage turnover and cartilage pathophysiology associated with osteoarthritis. Mutations in this gene are associated with metaphyseal anadysplasia. This gene is part of a cluster of MMP genes on chromosome 11.

### Product Info

**Amount :** 100 µg / 50 µg

**Content :** Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization.

**Storage condition :** Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.