PRODUCT INFORMATION

Target	MMP13
Synonyms	MMP-13;Collagenase 3;Matrix metalloproteinase-13
Description	Recombinant human MMP13 Protein with C-terminal 6×His tag
Delivery	In Stock
Uniprot ID	P45452
Expression Host	HEK293
Tag	C-6×His Tag
Molecular Characterization	MMP13(Leu20-Cys471) 6×His tag
Molecular Weight	The protein has a predicted molecular mass of 52.5 kDa after removal of the signal peptide. The apparent molecular mass of MMP13-His is approximately 55-70 kDa due to glycosylation.
Purity	The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage&Shipping	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.
Background	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. [provided by RefSeq, Jan 2016]
Usage	Research use only
Conjugate	Unconjugated

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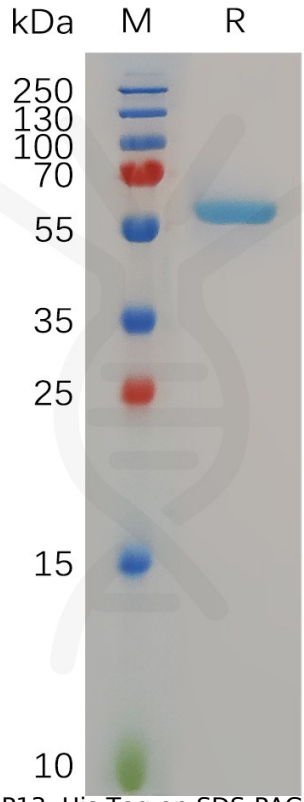


Figure 1. Human MMP13, His Tag on SDS-PAGE under reducing condition.

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