

## Recombinant Active Human MMP13 Protein, His-tagged(C-ter)

Cat. No. MMP13-239H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Active Human MMP13 Protein with His tag (C-ter) was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	Leu20-Cys471
<b>Description</b>	<p>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]</p>
<b>Form</b>	Powder
<b>Bio-activity</b>	Measured in a cell migration assay using A549 cells. 10 ng/mL of Recombinant Human MMP-13 can effectively induce A549 cells migration.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Endotoxin</b>	Endotoxin level is less than 0.1 EU/μg of the protein, as determined by the LAL test.
<b>Purity</b>	> 95% (by SDS-PAGE)
<b>Applications</b>	FuncSt, SDS-PAGE
<b>Notes</b>	For laboratory research only, not for drug, diagnostic or other use.
<b>Storage</b>	Lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C for up to one month, at 2-8°C for up to one week. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
<b>Storage Buffer</b>	PBS (pH 7.4)
<b>Reconstitution</b>	Reconstitute to a concentration of 0.1-0.5 mg/ml in sterile distilled water.

## GENE INFORMATION

<b>Gene Name</b>	MMP13 matrix metalloproteinase 13 (collagenase 3) [ Homo sapiens ]
<b>Official Symbol</b>	MMP13
<b>Synonyms</b>	MMP13; matrix metalloproteinase 13 (collagenase 3); matrix metalloproteinase 13 (collagenase 3); collagenase 3; CLG3; MMP-13; MANDP1;
<b>Gene ID</b>	4322
<b>mRNA Refseq</b>	NM_002427
<b>Protein Refseq</b>	NP_002418

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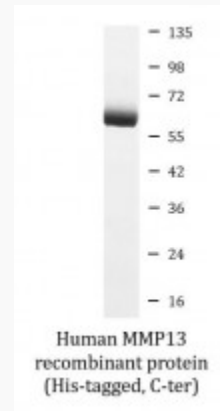
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**MIM** 600108

**UniProt ID** P45452

**SDS-PAGE**



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