

Active Recombinant Human MMP-13, activated

Cat. No. MMP13-43H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant full-length human MMP-13 (EC 3.4.24.--) expressed in *Spodoptera frugiperda* (471 amino acid residues [1-mhpgvlaaf ----- rvmpansilw c-471], molecular weight 53820 Da). Swiss Prot P45452. This product is APMA activated, which had been removed after activation employing SEC and dialysis. The actMMP-13 shows predominately the app. 48-kDa form and faint the 50-kDa and app. 30-kDa form.

Species Human

Source *S.frugiperda*

Form 50 mM Tris pH 6.5, 250 mM NaCl, 5 mM CaCl₂, 1 μM ZnCl₂

Bio-activity >200 munits/mg (international unit 1 μmole/min/mg)

Purity >95%, homogenous by SDS-PAGE

Storage The enzyme can be kept at -80°C for many month. Repeated freezing and thawing must be avoided. Dilute and activate only the amount of enzyme you need, do not store enzyme in reaction buffer. The active 48 kDa enzyme undergoes very fast changes into a 30 kDa form which still retains enzymatic characteristics of the 48 kDa enzyme.

GENE INFORMATION

Gene Name MMP13 matrix metalloproteinase 13 (collagenase 3) [*Homo sapiens*]

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Official Symbol	MMP13
Synonyms	MMP13; matrix metalloproteinase 13 (collagenase 3); matrix metalloproteinase 13 (collagenase 3); collagenase 3; CLG3; MMP-13; MANDP1;
Gene ID	4322
mRNA Refseq	NM_002427
Protein Refseq	NP_002418
MIM	600108
UniProt ID	P45452
Chromosome Location	11q22.3
Pathway	Activation of Matrix Metalloproteinases, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem; Matrix Metalloproteinases, organism-specific biosystem;
Function	calcium ion binding; calcium-dependent protein binding; fibronectin binding; low-density lipoprotein particle receptor binding; metalloendopeptidase activity; peptidase activity; zinc ion binding;

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