

**Pro- Matrix
Metalloproteinase 9
(Pro-MMP 9)**

Human, Recombinant, *E. coli*

Cat. No.: RCP9378

Size: 10µg

Synonym: Matrix metalloproteinase 9, gelatinase B, 92kD gelatinase, 92kD type IV collagenase precursor, CLG4B, GELB

Description: Matrix metalloproteinases are a family of zinc- and calcium-dependant endopeptidases, which degrade extracellular matrix proteins. MMP-9 is secreted as a 92kDa zymogen. Cleavage of pro-MMP-9 results in the active enzyme with a molecular weight of ~82kDa. MMP-9 has a gelatin-binding domain consisting of three fibronectin type II units, a catalytic domain containing the zinc-binding site, a proline-rich type V collagen-homologous domain and a hemopexin-like domain.

MMP9 is produced by monocytes, macrophages, neutrophils, keratinocytes, fibroblasts, osteoclasts and endothelial cells, and is involved in inflammatory responses, tissue remodelling, wound healing, tumour growth and metastasis.

RANDOX recombinant human Pro-MMP-9 comprises a 688aa fragment (20-707) corresponding to the pro form of the protein minus the signal peptide and is expressed in *E. coli* with an N-terminal 6xHis tag. This product is for research use only and is not intended for diagnostic or therapeutic use

Form: Liquid.
Supplied in 1x Laemmli Buffer (25mM Tris-HCl pH6.8, 50mM DTT, 1% (w/v) SDS, 0.1% (w/v) Bromophenol Blue, 2.5% Glycerol).

Purity: Single band on Western blot.

References: Pourmotabbed, T *et al.*, *Biochim Biophys Acta.* **1204 (1):97-107(1994).**

Romanic, AM. *et al.*, *Stroke* **29 (5): 1020-1030 (1998).**