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**Matrix Metalloproteinase- Human, Recombinant, *E. coli*  
9 (MMP-9)**

**Cat. No.:** RCP9308

**Size:** 10µg

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**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-dependent 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 MMP-9 comprises a 338aa fragment (113-450) corresponding to the catalytic domain of the protein 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).

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