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

Cat. No.: RCP9308

Size: 10µg

Synonym: Matrix metalloproteinase 9, gelatinase B, 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 338 amino acid fragment (113-450) corresponding to the catalytic domain of the protein and is expressed in *E. coli* with an N-terminal His 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).