



Recombinant Protein Technical Manual

Recombinant Mouse MMP-9 Protein (His Tag)

RPES2274

Product Data:

Product SKU: RPES2274

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: P41245

Protein Information:

Molecular Mass: 80.2 kDa

AP Molecular Mass: 100 kDa

Tag: C0His

Bio-activity:

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM Tris, 150mM NaCl, pH7.5

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Matrix metalloproteinase-9; MMP-9; 92 kDa gelatinase; 92 kDa type IV collagenase; Gelatinase B; GELB

Immunogen Information:

Sequence: Ala20-Pro730

Background:

Matrix metalloproteinases are a family of zinc and calcium dependent endopeptidases with the combined ability to degrade all the components of the extracellular matrix. MMP-9 (gelatinase B) can degrade a broad range of substrates including gelatin, collagen types IV and V, elastin and proteoglycan core protein. It is believed to act synergistically with interstitial collagenase (MMP1) in the degradation of fibrillar collagens as it degrades their denatured gelatin forms. MMP-9 is produced by keratinocytes, monocytes, macrophages and PMN leukocytes. MMP-9 is present in most cases of inflammatory responses. Structurally, MMP-9 may be divided into five distinct domains: a prodomain which is cleaved upon activation, a gelatinbinding domain consisting of three contiguous fibronectin type II units, a catalytic domain containing the zinc binding site, a prolinerich linker region, and a carboxyl terminal hemopexinlike domain.