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32-2557: rMMP 9 Recombinant Protein

Alternative Name : Matrix metalloproteinase-9,MMP-9,92 kDa type IV collagenase,92 kDa gelatinase,Gelatinase B,GELB,MMP9,CLG4B.

Description

Source : Baculovirus system, insect cells.
MMP-9 Rabbit Recombinant is a full length secreted protein (688 amino acids - a.a. 20-707). The MMP-9 is expressed in insect cells and fused to a 30 aa C-terminal Myc-His tag, having a total MW of 79.94kDa. Purified MMP9 protein appears at 95kDa on SDS-PAGE gel due to protein modification.
Matrix metalloproteinases are a family of zinc and calcium-dependent endopeptidases that break down extracellular matrix proteins. The MMP9 is secreted as a 92kDa zymogen. Cleavage of ProMMP-9 results in the active enzyme, having a molecular weight of approximately 82kDa. MMP9 is composed of the following domains: 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 the several cell types: monocytes, macrophages, neutrophils, keratinocytes, fibroblasts, osteoclasts and endothelial cells. MMP9 is involved in inflammatory responses, tissue remodeling, wound healing, tumor growth and metastasis. MMP9 may also play an important part in local proteolysis of the extracellular matrix and in leukocyte migration, as well as in bone osteoclastic resorption.

Product Info

Amount :	10 µg
Purification :	Greater than 85.0% as determined by SDS-PAGE.
Content :	The MMP-9 solution (0.3mg/ml) contains 50mM Tris, 150mM NaCl, 10% Glycerol, pH 7.5.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	APRRRQPTLVVFPGELRTRLTDRQLAEEYLFRYGYTRVASMHGDSQSLRLPLLLLQKHLSLPETGELDNATLEA MRAPRCGVPDVGKFQTFEGDLKWHHHNITYWIQNYSEDLPRDVIDDAFARAFALWSAVTPLTFTRVYSRDADI VIQFGVAEHGDGYPFDGKDGLLAHAFPPGPGIQGDAHFDDEELWSLGKGVVVPTYFGNADGAPCHFPFTFEG RSYTACTTDGRSDGMAWCSTTADYDTDRRFGFCPSERLYTQDGNADGKPCEFPFIFQGRTYSACTTDGRSDG HRWCATTASYDKDKLYGFCPTRADSTVVGGNSAGELCVFPFVFLGKEYSSCTSEGRRDGRLWCATTSNFDSD KKWGFCPDKGYSLFLVAAHEFGHALGLDHSSVPERLMYPMYRYLEGSPLHEDDVRGIQHLYGPNPNPQPPATT TPEPQPTAPPTACPTWPATVRPSEHPTTSPTGAPSAGPTGPPTASPSAAPTASLDPAEDVCNVNVFDAIAEIGNK LHVFKDGRYWRFSEGSGRRPQGPFLIADTWPALPAKLDSAFEEPLTKKLFFFSGRQVWVYTGASVLGPRRLDK LGLGPEVPHVTGALPRAGGKVLLFGAQRFWRFDVKTQTVDSRSGAPVDQMFPGVPLNTHDVFQYREKAYFCQ DRFFWRVSTRNEVNLVDQVGYVSFDILHCPEDENLYFQGLEEQKLISEEDLNSAVDHHHHHH.

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