9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

MMP 9 Human

Matrix Metalloproteinase-9 Human Recombinant
ENZ0853

Product Overview

Name	MMP 9 Human
Description	
Matrix Metalloproteinase-9 Human Recombinant	
Accession (Primary)	P14780
Synonyms	
Matrix metalloproteinase-9, MMP-9, 92 kDa type IV collagenase, 92 kDa gelatinase, Gelatinase B, GELB, MMP9, CLG4B.	
Introduction	
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. MMP9 cleaves type IV and type V collagens into large C-terminal three qu	
Source	
Baculovirus system, insect cells.	
Physical Appearance	
Sterile Filtered clear solution.	
Formulation	
The MMP-9 solution (0.3mg/ml) contains 50mM Tris, 150mM NaCl, 10% Glycerol, pH 7.5.	
Stability	
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.	
Purity	
Greater than 85.0% as determined by SDS-PAGE.	

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Amino acid sequence

APRRRQPTLVVFPGELRTRLTDRQLAEEYLFRYGYTRVASMHGDSQSLRLPLLLLQK

HLSLPETGELDNATLEAMRAPRCGVPDVGKFQTFEGDLKWHHHNITYWIQNYSEDLP

RDVIDDAFARAFALWSAVTPLTFTRVYSRDADIVIQFGVAEHGDGYPFDGKDGLLAHA

FPPGPGIQGDAHFDDEELWSLGKGVVVPTYFGNADGAPCHFPFTFEGRSYTACTTD

GRSDGMAWCSTTADYDTDRRFGFCPSERLYTQDGNADGKPCEFPFIFQGRTYSACT

TDGRSDGHRWCATTASYDKDKLYGFCPTRADSTVVGGNSAGELCVFPFVFLGKEYS

SCTSEGRRDGRLWCATTSNFDSDKKWGFCPDKGYSLFLVAAHEFGHALGLDHSSVP

ERLMYPMYRYLEGSPLHEDDVRGIQHLYGPNPNPQPPATTTPEPQPTAPPTACPTWP

ATVRPSEHPTTSPTGAPSAGPTGPPTASPSAAPTASLDPAEDVCNVNVFDAIAEIGNK

LHVFKDGRYWRFSEGSGRRPQGPFLIADTWPALPAKLDSAFEEPLTKKLFFFSGRQV

WVYTGASVLGPRRLDKLGLGPEVPHVTGALPRAGGKVLLFGAQRFWRFDVKTQTVD

SRSGAPVDQMFPGVPLNTHDVFQYREKAYFCQDRFFWRVSTRNEVNLVDQVGYVS FDILHCPED

ENLYFQGLEEQKLISEEDLNSAVDHHHHHH.

Precautions

MMP 9 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P14780)