

Product datasheet for **TP724590**

Mmp9 (20-730, His-Tag) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant mouse MMP-9 protein
Species:	Mouse
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	APYQRQPTFV VFPKDLKTSN LTDTQLAEAY LYRYGYTRAA QMMGEKQSLR PALLMLQKQL SLPQTGELDS QTLKAIRTPR CGVPDVGRFQ TFKGLKWDHH NITYWIQNY S EDLPRDMIDD AFARAFVWG EVAPLTFTRV YGPEADIVIQ FGVAEHGDGY PFDGKDGLLA HAFPPGAGVQ GDAHFDDEL WSLGKGVIP TTYGNSNGAP CHFPFFEGR SYSACTTDGR NDGTPWCSTT ADYDKDGKFG FCPSELYTE HGNGEGKPCV PPFIFEGRSY SACTTKGRSD GYRWCATTAN YDQDKLYGFC PTRVDATVVG GNSAGELCVF PFVFLGKQYS SCTSDGRRDG RLWCATTSNF DTDKKWGFPC DQGYSLFLVA AHEFGHALGL DHSSVPEALM YPLYSYLEGF PLNKDDIDGI QYLYGRGSKP DPRPPATTTT EPQPTAPPTM CPTIPPTAYP TVGPTVGPTG APSPGPTSSP SPGPTGAPSP GPTAPPTAGS SEASTESLSP ADNPCNVDF DAIAEIQ GAL HFFKDGWYWK FLNHRGSPLQ GPFLTARTWP ALPATLDSAF EDPQTKRVFF FSGRQMWWYT GKTVLGPRSL DKLGLGPEVT HVSGLLPRRL GKALLFSKGR VWRFDLKSQK VDPQSVIRVD KEFSGVPWNS HDIFQYQDKA YFCHGKFFWR VSFQNEVNKV DHEVNQVDDV GYVTDLLQC P
Tag:	His-Tag
Predicted MW:	79.3kDa (717aa)
Concentration:	1mg/ml (determined by Bradford assay)
Purity:	> 90% by SDS-PAGE
Buffer:	Liquid in. 20mM Tris-HCl (pH 7.5) containing 1mM CaCl ₂ , 100mM NaCl, 10% glycerol
Bioactivity:	Specific activity is >1,500 pmol/min/ug, and is defined as the amount of enzyme that cleaves 1pmol of Mca-PLGL-Dpa-AR-NH ₂ per minute at pH 7.5 at 25C.
Endotoxin:	< 1 EU per 1ug of protein (determined by LAL method)
Applications:	SDS-PAGE, Enzyme Activity
Storage:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.
RefSeq:	NP_038627.1



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Summary:

MMP-9, also known matrix metalloproteinase-9, is one of the matrix metalloproteinases superfamily which is zinc and calcium dependent endopeptidases with the combined ability to degrade all the components of the extracellular matrix. It degrades many substrates such as gelatin, collagens, elastin and proteoglycan core protein which appears to be involved in invasive ability. This protein also plays an essential role in leukocyte migration and in bone osteoclastic resorption. It plays an important role in angiogenesis and neovascularization and so appears to be involved in the remodeling associated with malignant glioma neovascularization. Recombinant mouse MMP-9 protein, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.