

MMP1, 18-469aa, Human, His-tag, Baculovirus

Cat.NO.: TP02990

3th Edition

Synonyms:Interstitial collagenase isoform 1, MMP1, CLG, CLGN.

Description:MMP1, also known as interstitial collagenase isoform 1, contains 4 hemopexin-like domains and is a member of the matrix metalloproteinase (MMP) family. It is capable of degrading a wide range of extracellular molecules and a number of bioactive molecules. It plays a central role in cell proliferation, migration, differentiation, angiogenesis, apoptosis and host defences. Recombinant human MMP1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Form:Liquid. In 20mM MES buffer (pH 5.5) containing 10mM CaCl₂, 100 mM NaCl, 0.05% Brij35, 30% glycerol.

Molecular Weight:53.1kDa (460aa), 50-70kDa (SDS-PAGE under reducing conditions)

Sequences:

HSFPATLETQEVDLVQKYLEKYYNLKNDGRQVEKRRNSGPVVEKQKQMEFFGLKVTGKPD AETLKV MKQPR
CGVPDVAQFVLTEGNPRWEQTHLYRIENYTPDLPRADVDHAIEKAFQLWSNVTPLTFTKVSEGGADIMISFVRGD
HRDNSPFDGPGGNLAHAFQPGPGIGGDAHFD EDERWTN NFREYNLHRVAAHELGHSLGLSHSTDIGALMYPSTF
SGDVQLAQDDIDGIQAIYGRSQNPVQPIGPQTPKACDSKLTFD AIT TIRGEVMFFKDRFYMR TNPFYPEVELNFISVF
WPQLPNGLEAAYEFADRDEV RFFKGNKYWAVQGQNVLHGYPKDIYSSFGFPRTVKHIDAALSEENTGKTYFFVAN
KYWRYDEYKRSM DPGYPK MIAHDFPGIGHKVD AVMKDGFFYFFHGTRQYKFD PKTKRIL TLQKANSWFNCRKNL
EHHHHHH

Purity:> 95% by HPLC

Concentration:0.25mg/ml (determined by Absorbance at 280nm)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.