

MMP10, 99-476aa, Human, His tag, E.coli

Cat.NO.: TP02991

3th Edition

Synonyms:stromelysin-2 preproprotein, SL-2, STMY2

Description:MMP10 protein of the matrix metalloproteinase (MMP) family is involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The enzyme encoded by this gene degrades proteoglycans and fibronectin. MMP10 is part of a cluster of MMP genes which localize to chromosome 11q22.3. Recombinant human MMP10 protein, fused to His-tag at N-terminus, was expressed in E.coli.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol

Molecular Weight:45.4kDa (401aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGFSFPGMPKWRKTHLYRIVNYTPDLPRDAVDSAIEKALKVWEEVTPLTFSR
LYEGEADIMISFAVKEHGDFYSFDGPGHSLAHAYPPGPGLYGDIHFDDDEKWTEDASGTNLFVAAHELGHSLGLF
HSANTEALMYPLYNSFTELAQFRLSQDDVNGIQSLYGPPPASTEELVPTKSVPSGSEMPAKCDPALSFDAISTLRG
EYLFFKDRYFWRRSHWNPEPEFHLISAFWPSLPSYLDAAAYEVNSRDTVFIFKGNEFWAIRGNEVQAGYPRGIHTLG
FPPTIRKIDAAVSDKEKKKTYFFAADKYWRFDENSQSMEQGFPRLIADDFPGVEPKVDAVLQAFGFFYFFSGSSQF
EFDPNARMVTHILKSNSWLHC

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

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.