Recombinant human MMP-14/MT1-MMP protein

Catalog Number: ATGP3460

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
21-538aa

UniProt No.
P50281

NCBI Accession No.
NP_004986

Alternative Names
Matrix metalloproteinase-14, MMP14, MMP-14, MMP-X1, MT-MMP, MT-MMP 1, MT1-MMP, MT1MMP, MTMMP1, WNCHRS

PRODUCT SPECIFICATION

Molecular Weight
59.9 kDa (527aa)

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

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 90% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
MMP14, also known as matrix metalloproteinase-14, is a membrane-anchored zinc-binding endopeptidase that is expressed at the leading edge of various invasive carcinomas and promotes tumor cell invasion through degradation of the extracellular matrix. It plays an important role in extracellular matrix (ECM) remodeling by

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being able to degrade type I collagen, activate pro-MMP-2 and process cell adhesion molecules such as CD44 and integrin alpha V. It is a key enzyme in many physiological and pathological processes such as angiogenesis and tumor invasion. Recombinant human MMP14, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

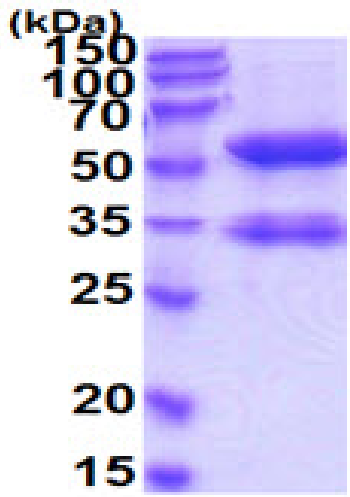
ADLALASLGS AQSSSFSPEA WLQQYGYLPP GDLRTHTQRS PQSLSAAIAA MQKFYGLQVT GKADADTMKA MRRPRCGVPD KFGAEIKANV RRKRYAIQGL KWQHNEITFC IQNYTPKVGE YATYEAIRKA FRVWESATPL RFREVPYAYI REGHEKQADI MIFFAEGFHG DSTPFDGEGG FLAHAYFPGP NIGGDTHFDS AEPWTVRNED LNGNDIFLVA VHELGHALGL EHSSDPSAIM APFYQWMDTE NFVLPDDDRR GIQQLYGGES GFPTKMPPQP RTTSRPSVPD KPKNPTYGPN ICDGNFDTVA MLRGEMFVFK ERWFWRVRNN QVMDGYPMPI GQFWRGLPAS INTAYERKDG KFVFFKGDKH WVFDEASLEP GYPKHIKELG RGLPTDKIDA ALFWMPNGKT YFFRGNKYYR FNEELRAVDS EYPKNIKVWE GIPESPRGSF MGSDEVFTYF YKGNKYWKFN NQKLKVEPGY PKSALRDWMG CPSGGRPDEG TEEETEVIII EVDEEGGGAV SHHHHHH

General References

Arndt A., et al. (2015) Biomed Res Int. 2015:185404.
Seiki M., et al. (2003) Cancer Lett. 194:1-11.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.