
Product Data Sheet

Product Name: MMP14 Human
 Cat. No.: GP21950
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9,Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms MatrixMetallopeptidase 14; Matrix Metallopeptidase 14 (Membrane-Inserted); Membrane-Type-1Matrix Metalloproteinase; Membrane Type 1 Metalloprotease; EC 3.4.24.80; MT-MMP1; MT1-MMP; MMP-14; MMP-X1; MT1MMP; MTMMP1; Matrix Metalloproteinase 14(Membrane-Inserted); Membrane-Type Matrix Metalloproteinase 1; MatrixMetalloproteinase-14; EC 3.4.24; MT-MMP; WNCHRS; Matrix metalloproteinase-14; Membrane-typematrix metalloproteinase 1.

Amino Acid Sequence
 ADLALASLGSAQSSSFSPA WLQQYGYLPP GDLRTHQRS PQSLSAAIAA
 MQKFYGLQVT GKADADTMKA MRRPRCGVPDKFGAEIKANV RKRKRYAIQGL
 KWQHNEITFC IQNYTPKVG E YATYEAIRKA FRVWESATPL
 RFREVPYAYIREGHEKQADI MIFFAEGFHG DSTPFDGEGGFLAHAYFPGP
 NIGGDTHFDS AEPWTVRNE D LNGNDIFLVA VHELGHALGLEHSSDPSAIM
 APFYQWMDTE NFVLPDDDRR GIQQLYGGES GFPTKMPPQP RTTSRPSVDP
 KPNPTYGPNICDGNFDTVA MLRGEMFVFK ERWFWRVRNN QVMDGYPMPI
 GQFWRGLPAS INTAYERKDGFVFFKGDH WVFDEASLEP GYPKHIKELG
 RGLPTDKIDA ALFWMPNGKTYFFRGNKYR FNEELRAVDS EYPKNIKVWE
 GIPESPRGSF MGSDEVFTYF YKGNKYWKFN NQKLKVEPGYPKSALRDWMG
 CPSGGRPDEG TEEETEVIIEVDEEGGGAV SHHHHHH.

Formulation MMP14protein solution (0.25mg/ml) containing Phosphate Buffered Saline (pH 7.4) and10% glycerol.

Introduction

Matrix metalloproteinase-14 (MMP14), is a membrane-anchored zinc-binding endopeptidase which is expressed at the leading edge of differentinvasive carcinomas and also promotes tumor cell invasion through degradationof the extracellular matrix.

Caution: Product has not been fully validated for medical applications. For research use only.

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MMP14 takes a vital part in extracellular matrix, ECM, remodeling by having the capability to degrade type I collagen, activate pro-MMP-2 and process cell adhesion molecules for instance CD44 and integrin alpha V. MMP14 is a key enzyme in many physiological as well as pathological processes for example angiogenesis & tumor invasion.

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.

Background

MMP14 Human Recombinant produced in Sf9 Baculovirus cells is a single, non-glycosylated polypeptide chain containing 527 amino acids (21-538a.a) and having a molecular mass of 59.9kDa (Molecular size on SDS-PAGE will appear at approximately 35-70kDa). MMP14 is fused to a 6 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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