

MMP14, 21-538aa, Human, His-tag, Baculovirus

Cat.NO.: TP02993

3th Edition

Synonyms:Matrix metalloproteinase-14, MMP14, MMP-14, MMP-X1, MT-MMP, MT-MMP 1, MT1-MMP, MT1MMP, MTMMP1, WNCHRS

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 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.

Form:Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

Molecular Weight:59.9kDa (527aa), 35-70kDa (SDS-PAGE under reducing conditions)

Sequences:

ADLALASLGSAQSSSFSPAWLQQYGYLPPGDLRTHTQRSPQSLSAIAAMQKFYGLQVTGKADADTMKAMRRP
RCGVDPKFGAEIKANVRRKRYAIQGLKWQHNEITFCIQNYTPKVGEYATYEAIRKAFRVWESATPLRFREVPYAYIR
EGHEKQADIMIFFAEGFHGDSTPFDGEGGFLAHAYFPGPNIGGDTHFDSAEPWTVRNEIDLNGNDIFLVAVHELGHA
LGLEHSSDPSAIMAPFYQWMDTENFVLPDDDRRGIQQLYGGESGFPTKMPPQPRTTSRPSVPDKPKNPTYGPNIC
DGNFDTVAMLRGEMFVKERWFWVRNNQVMDGYMPIGQFWRGLPASINTAYERKDGKVFVFFKGDKHWVFDE
ASLEPGYPKHIKELGRGLPTDKIDAALFWMPNGKTYFFRGNKYRNFNEELRAVDSEYPKNIKVWEGIPESPRGSFM
GSDEVFTYFYKGNKYWKFNQKLVKVEPGYPKSALRDWMGCPSSGGRPDEGTEEETEVIIEVDEEGGGAVSHHHH
HH

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.