

MMP-14 Protein, Human, Recombinant (His & SUMO)

General Information

Synonyms:	MMP-14;Matrix metalloproteinase-14;Membrane-type-1 matrix metalloproteinase (MT1-MMP;MT1MMP);Membrane-type matrix metalloproteinase 1 (MT-MMP 1;MTMMP1);MMP-X1;MMP14
Protein Construction:	112-582 aa
Species:	Human
Expression Host:	E. coli
Accession:	P50281
Molecular Weight:	69.9 kDa (predicted)
AA Sequence:	YAIQGLKWQHNEITFCIQNYTPKVGGEYATYEAIRKAFRVWESATPLRFREVPYAYIREGHEKQADIMIFFAEGF HGDSTPFDGEGGFLAHAYFPGPNIGGDTHFDSAEPWTVRNEIDLNGNDIFLVAVHELGHALGLEHSSDPSAIM APFYQWMDTENFVLPDDDRGIQQLYGGESGFPTKMPPQPRTTSRPSVPDKPKNPTYGPNICDGNFDTVAM LRGEMFVKERWFWVRNQNQVMDGYMPPIGQFWRGLPASINTAYERKDGKVFVFKGDKHWWVFDEASLEPG YPKHIKELGRGLPTDKIDAALFWMPNGKTYFFRGNKYRFNEELRAVDSEYPKNIKVWEGIPESPRGSFMGSD EVFTYFYKGNKYWKFNNQKLKVEPGYPKSALRDWMGCPSSGGRPDEGTEEETEVIIEVDEEGGAVSAAAVV LPVLLLLLVAVGLAVFFRRHGTPRRLLYCQRSLLDKV

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Endopeptidase that degrades various components of the extracellular matrix such as collagen. Activates progelatinase A. Essential for pericellular collagenolysis and modeling of skeletal and extraskeletal connective tissues during development. May be involved in actin cytoskeleton reorganization by cleaving PTK7. Acts as a positive regulator of cell growth and migration via activation of MMP15. Involved in the formation of the fibrovascular tissues in association with pro-MMP2. Cleaves ADGRB1 to release vasculostatin-40 which inhibits angiogenesis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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