

MMP-24 Protein, Mouse, Recombinant (His & Myc)

General Information

Synonyms:	Membrane-type-5 matrix metalloproteinase (MT5-MMP;MT5MMP);Mmp24;Membrane-type matrix metalloproteinase 5 (MT-MMP 5;MTMMP5);Mt5mmp;Matrix metalloproteinase-24; Mmp21;Matrix metalloproteinase-21 (MMP-21);MMP-24
Protein Construction:	42-575 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	Q9R0S2
Molecular Weight:	66.4 kDa (predicted)
AA Sequence:	AGKPAGADAPFAGQNWLKSYGYLLPYESRASALHSGKALQSAVSTMQQFYGIPVTGVLDQTTIEWMKKPRC GVPDHPHLSRRRRNKRYALTGQKWRQKHITYSIHNYTPKVGELDRKAIQAFDVWQKVTPLTFEEVPYHEIK SDRKEADIMIFFASGFHGDSSPFDGEGGFLAHAYFPGPGIGGDTHFDSDEPWTLGNANHDGNDLFLVAVHEL GHALGLEHSNDPSAIMAPFYQYMETHNFKLPQDDLQGIQKIYGPPAEPLPTRPLPLPVRRIHSPSERKHER HPRPPRPLGDRPSTPGAKPNICDGNFNTVALFRGEMFVKDRWFWRLRNNRVQEGYPMQIEQFWKGLPA RIDAAYERADGRFVFFKGDYVWFKEVTVEPGYPHSLGELGSLPREGIDTALRWEPVGKTYFFKGERYWRYS EERRATDPGYPKPITVWKGIPQAPQGAFISKEGYTYFYKGRDYWKFDNQKLSVEPGYPRNILRDWMGCKQK EVERRKERRLPQDDVDIMVTIDDVPGSVNA

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:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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

Metalloprotease that mediates cleavage of N-cadherin (CDH2) and acts as a regulator of neuro-immune interactions and neural stem cell quiescence. Involved in cell-cell interactions between nociceptive neurites and mast cells, possibly by mediating cleavage of CDH2, thereby acting as a mediator of peripheral thermal nociception and inflammatory hyperalgesia. Key regulator of neural stem cells quiescence by mediating cleavage of CDH2, affecting CDH2-mediated anchorage of neural stem cells to ependymocytes in the adult subependymal zone, leading to modulate their quiescence. May play a role in axonal growth. Able to activate progelatinase A. May also be a proteoglycanase involved in degradation of proteoglycans, such as dermatan sulfate and chondroitin sulfate proteoglycans. Cleaves partially fibronectin, but not collagen type I, nor laminin.

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