

Recombinant Mouse MMP24 Protein (42-575 aa), His-Myc-tagged

Cat. No. MMP24-2455M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse MMP24 Protein (42-575 aa) is produced by E. coli expression system. This protein is fused with a 10xHis tag at the N-terminal and a Myc tag at the C-terminal. Research Area: Cell Biology. Protein Description: Partial.
Species	Mouse
Source	E.coli
ProteinLength	42-575 aa
Description	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.
Form	Tris-based buffer, 50% glycerol

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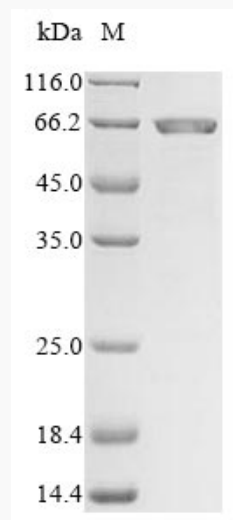
Molecular Mass	66.4 kDa
AA Sequence	AGKPAGADAPFAGQNWLSYGYLLPYESRASALHSGKALQSAVSTMQQFYGIPVT GVLDQTTIEWMKKPRCGVPDHPHLSRRRRNKRYALTGQKWRQKHITYSIHNYTPKV GELDTRKAIRQAFDVWQKVTPLTFFEEVPYHEIKSDRKEADIMIFFASGFHGDSSPFD GEGGFLAHAYFPGPGIGGDTHFDSDEPWTLGNNHHDGNDLFLVAVHELGHALGLE HSNDPSAIMAPFYQYMETHNFKLPQDDLQGIQKIYGPPAELEPTRPLPTLPVRRHS PSERKHERHPRPPRPPLGDRPSTPGAKPNICDGNFNTVALFRGEMFVFKDRWFWR LRNNRVQEGYPMQIEQFWKGLPARIDAAYERADGRFVFFKGDKYWWFKEVTVEPG YPHSLGELGSCLPREGIDTALRWEVPVGKTYFFKGERYWRYSEERRATDPGYPKPIT VWKGIPQAPQGAFISKEGYTYFYKGRDYWKFDNQKLSVEPGYPRNILRDWMGCK QKEVERRKERRLPQDDVDIMVTIDVPGSVNA
Purity	> 85% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.
GENE INFORMATION	
Gene Name	Mmp24 matrix metalloproteinase 24 [Mus musculus]
Official Symbol	MMP24

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Synonyms	MMP24; matrix metalloproteinase 24; MMP-21; MMP-24; MT-MMP 5; membrane type 5-MMP; MT5MMP; MTMMP5; MT5-MMP; AU040325;
Gene ID	17391
mRNA Refseq	NM_010808
Protein Refseq	NP_034938
UniProt ID	Q9R0S2



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.