

## Product datasheet for TP308917L

### MMP14 (NM\_004995) Human Recombinant Protein

#### Product data:

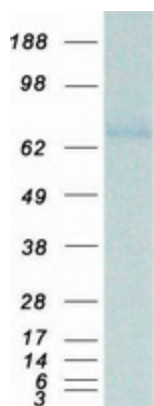
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human matrix metalloproteinase 14 (membrane-inserted) (MMP14), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC208917 representing NM_004995 Red=Cloning site Green=Tags(s)
	MSPAPRPPRCLLLPLLLTLGTALASLGSASQSSSFPEAWLQQYGYLPPGDLRTHTRSPQSLSAIAAMQK FYGLQVTGKADADTMKAMRRPRCGVPDKFGAEIKANVRRKRYAIQGLKWQHNEITFCIQNYTPKVGGEYAT YEAIRKAFRWESATPLRFREVPYAYIREGHEKQADIMIFFAEGFHGDSTPFDGEGGFLAHAYFPGPNIG GDTHFDSAEPWTVRNEIDLNGNDIFLVAVHELGHALGLEHSSDPSAIMAPFYQWMDTENFVLPDDDRRGIQ QLYGGESGFPTKMPPQPRRTSRPSVPDKPKNPTYGPNICDGNFDTVAMLRGEMFVFKERWFWRVRRNNQVM DGYPMPIGQFWRGLPASINTAYERKDGKVFVFKGDKHWVFEASLEPGYPKHIKELGRGLPTDKIDAALF WMPNGKTYFFRGNKYRFNEELRAVDSEYPKNIKVWEGIPESPRGSFMGSDEVFTYFYKGNKYWKFNQK LKVEPGYPKSALRDWMGCPSGGRPDGTEETEVIIEVDEEGGAVSAAAVLPLVLLLLLVAVGLAVF FFRRHGTPRRLLYCQRSLLDKV
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	53.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_004986</a>
<b>Locus ID:</b>	4323
<b>UniProt ID:</b>	<a href="#">P50281</a>
<b>RefSeq Size:</b>	3558
<b>Cytogenetics:</b>	14q11.2
<b>RefSeq ORF:</b>	1746
<b>Synonyms:</b>	MMP-14; MMP-X1; MT-MMP; MT-MMP 1; MT1-MMP; MT1MMP; MTMMP1; WNCHRS
<b>Summary:</b>	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. However, the protein encoded by this gene is a member of the membrane-type MMP (MT-MMP) subfamily; each member of this subfamily contains a potential transmembrane domain suggesting that these proteins are expressed at the cell surface rather than secreted. This protein activates MMP2 protein, and this activity may be involved in tumor invasion. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome, Protease, Transmembrane
<b>Protein Pathways:</b>	GnRH signaling pathway

### Product images:



Coomassie blue staining of purified MMP14 protein (Cat# [TP308917]). The protein was produced from HEK293T cells transfected with MMP14 cDNA clone (Cat# [RC208917]) using MegaTran 2.0 (Cat# [TT210002]).