

Active Recombinant Human Membrane Metallo-Endopeptidase-Like 1, His-tagged

Cat. No. MMEL1-1981H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MMEL1 protein was expressed in Murine myeloma cellline. Gly69-Trp770, with an N-terminal 6-His tag.
Species	Human
Source	Mammalian Cells
Protein Length	69-770 a.a.
Description	MMEL1 is a zinc protease of the neprilysin (NEP) family, which also includes NEP, ECE-2, PEX, DINE, Kell and several NEP-like proteins. It is encoded by the MMEL1 gene in the human genome and is also known as soluble secreted endopeptidase (SEP), Neprilysin-like 1 and Neprilysin-2. Highly expressed in testis, the cDNA predicted a type II transmembrane protein with a short cytoplasmic tail and a large ectodomain. Both membrane-bound and soluble forms were comparable with regard to model substrates, pH optima and inhibitor profiles. The ectodomain of human MMEL1 was expressed with an N-terminal His tag and purified.
Form	Supplied as a 0.2 µm filtered solution in Tris, NaCl and ZnCl ₂ .
N-terminal Sequence	His
Molecular Weight	82 kDa

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Activity	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPPGFSAFK(Dnp)-OH. The specific activity is > 250 pmoles/min/μg, as measured under the described conditions.
Endotoxin Level	<1.0 EU per 1 μg of the protein by the LAL method.
SDS-PAGE	99 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70°C as supplied. 3 months, -20 to -70°C under sterile conditions after opening.

GENE INFORMATION

Gene Name	MMEL1 membran metallo-endopeptidase-like 1 [Homo sapiens]
Official Symbol	MMEL1
Synonyms	MMEL1; membran metallo-endopeptidase-like 1; NL1; NL2; SEP; NEP2; MMEL2; NEPII; NEP2 (m); neprilysin-2; neprilysin II; zinc metallopeptidase; soluble secreted endopeptidase; EC 3.4.24.11
Gene ID	79258
mRNA Refseq	NM_033467
Protein Refseq	NP_258428
UniProt ID	Q495T6

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Chromosome Location	1p36
Function	metal ion binding; metalloendopeptidaseactivity; peptidase activity