

Recombinant Mouse ERAP1 Protein (731-930 aa), His-Myc-tagged

Cat. No. ERAP1-2101M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse ERAP1 Protein (731-930 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: Immunology. Protein Description: Partial.
Species	Mouse
Source	E.coli
ProteinLength	731-930 aa
Description	Aminopeptidase that plays a central role in peptide trimming, a step required for the generation of most HLA class I-binding peptides. Peptide trimming is essential to customize longer precursor peptides to fit them to the correct length required for presentation on MHC class I molecules. Strongly prefers substrates 9-16 residues long. Rapidly degrades 13-mer to a 9-mer and then stops. Preferentially hydrolyzes the residue Leu and peptides with a hydrophobic C-terminus, while it has weak activity toward peptides with charged C-terminus. May play a role in the inactivation of peptide hormones. May be involved in the regulation of blood pressure through the inactivation of angiotensin II and/or the generation of bradykinin in the kidney (By similarity).
Form	Tris-based buffer,50% glycerol
Molecular Mass	28.3 kDa

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AA Sequence	PCVQRAERYFREWKSSNGNMSIPIDVTLAVFAVGAQNTEGWDFLYSKYQSSLSSTE KSQIEFSLCTSKDPEKLQWLLDQSFKEIITQEFPHILTLIGRNPVGYPYPLAWKFLREN WNKLVQKFELGSSSIAHMVMGTDDQFSTRARLEEVKGFFSSLKENGSQLRCVQQTI ETIEENIRWMDKNFDKIRLWLQKEKPELL
Purity	> 90% 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 with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name	Erap1 endoplasmic reticulum aminopeptidase 1 [Mus musculus]
Official Symbol	ERAP1
Synonyms	ERAP1; A-LAP; ARTS-1; PILS-AP; Arts1; ERAAP; PILSA; PILSAP;
Gene ID	80898
mRNA Refseq	NM_030711
Protein Refseq	NP_109636

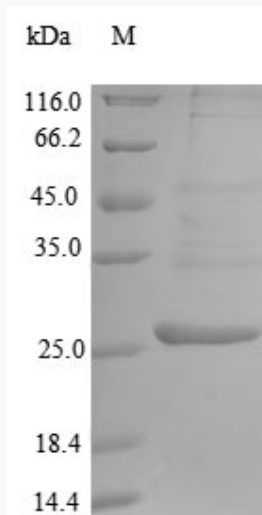
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UniProt ID

Q9EQH2



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

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