Recombinant Mouse Erap1 Protein, Myc/DDK-tagged

Cat. No. Erap1-2851M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length endoplasmic reticulum aminopeptidase 1 (Erap1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
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.
Molecular Mass	107 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Erap1 endoplasmic reticulum aminopeptidase 1 [Mus musculus (house mouse)]
Official Symbol	Erap1
Synonyms	ERAP1; endoplasmic reticulum aminopeptidase 1; A-LAP; ARTS-1; PILS-AP; aminopeptidase PILS; VEGF-induced aminopeptidase; adipocyte-derived leucine aminopeptidase; puromycin-insensitive leucyl-specific aminopeptidase; type 1 tumor necrosis factor receptor shedding aminopeptidase regulator; Arts1; ERAAP; PILSA; PILSAP
Gene ID	80898
mRNA Refseq	NM_030711
Protein Refseq	NP_109636
UniProt ID	Q9EQH2

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