# Recombinant Human ERAP2 Protein

## Catalog No.: RP03147LQ



## Sequence Information

**Species**
Human

**Gene ID**
64167

**Swiss Prot**
Q6P179

**Tags**
N-His

**Synonyms**
Endoplasmic reticulum aminopeptidase 2, Leukocyte-derived arginine aminopeptidase, L-RAP, ERAP2, LRAP

## Product Information

**Source**
HEK293 cells

**Purification**
≥ 95 % as determined by SDS-PAGE.

**Calculated MWObserved MW**
115-125 kDa.

**Endotoxin**
< 1 EU/μg of the protein by LAL method.

**Formulation**
Supplied as a 0.22 μm filtered solution in 12.5mM Tris, 75mM NaCl, pH 7.5, 50% glycercol.
Contact us for customized product form or formulation.

**Reconstitution**

## Background

Leukocyte-derived arginine aminopeptidase (LRAP), also known as endoplasmic reticulum-aminopeptidase 2 (ERAP2), is the second identified aminopeptidase localized in the in the lumenal side of endoplasmic reticulum (ER) processing antigenic peptides presented to major histocompatibility complex (MHC) class I molecules. It is a 96-amino acid protein with significant homology to placental leucine aminopeptidase and adipocyte-derived leucine aminopeptidase. LRAP preferentially hydrolyzes the basic residues Arg and Lys, and contains the HEXXH(X)18E zinc-binding motif, which is the characteristic of the M1 family of zinc metallopeptidases which also includes PILS/ARTS1/ERAP1 and LNPEP/PLAP. Induced by interferon-gamma, LRAP is able to trim various MHC class I antigenic peptide precursors.

## Basic Information

**Description**
Recombinant Human ERAP2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Lys505) of Human ERAP2 (Accession #NP_071745.1) fused with His tag at the N-terminus.

**Activity**
Measured by its ability to cleave the fluorogenic peptide substrate, Arg-7-amido-4-methylcoumarin (Arg-AMC). The specific activity is >50 pmoles/min /μg.

**Shipping**
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -70℃

**Operational Notes**
For your safety and health, please wear a lab coat and disposable gloves for handling.

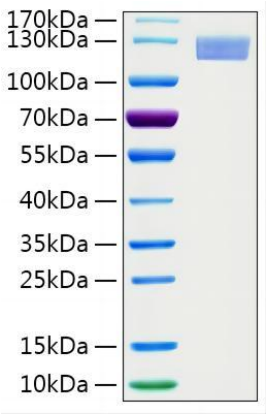
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## Validation Data




Recombinant Human ERAP2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.