Active Recombinant Human ERAP1 Protein, His-tagged

Cat. No. ERAP1-532H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ERAP1 (Ala37-Met941) protein with a C-terminal 10-His tag, was expressed in Mouse myeloma cell line.
Species	Human
Source	Mammalian Cells
ProteinLength	37-941 a.a.
Description	The name of Aminopetidase PILS (Puromycin-Insensitive Leucyl-Specific) describes the two basic properties of this zinc metalloprotease in vitro. Also known as ALAP (Adipocyte-derived Leucin AminoPeptidase), type 1 tumor necrosis factor receptor (TNFR) shedding aminopeptidase regulator and ER aminopeptidase ERAP1 or ERAAP, it is encoded by the ARTS1 gene. Aminopeptidase PILS has been identified to regulate antigen presentation, promote TNFR1 ectodomain shedding and associate with hypertension.
Predicted N Terminal	Ala37
Bio-activity	Measured by its ability to cleave the fluorogenic peptide substrate, Leu-AMC. The specific activity is >125 pmol/min/μg
Molecular Mass	105 kDa
Endotoxin	<1.0 EU per 1 μg of the protein by the LAL method.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	>95% by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 μm filtered solution in Tris and NaCl.

GENE INFORMATION

Gene Name	ERAP1
Official Symbol	ERAP1 endoplasmic reticulum aminopeptidase 1 [Homo sapiens (human)]
Synonyms	Adipocyte-derived leucine aminopeptidase; A-LAP; A-LAPALAP; Aminopeptidase PILS; ARTS1; ARTS1aminopeptidase regulator of TNFR1 shedding; ARTS-1PILSAP; EC 3.4.11; EC 3.4.11.-; EC 3.4.11.1; endoplasmic reticulum aminopeptidase 1; endoplasmic reticulum aminopeptidase associated with antigen processing; ERAAP1; ERAP1; KIAA0525APPILS; PILS-AP; PILS-APERAAP; Puromycin-insensitive leucyl-specific aminopeptidase; Type 1 tumor necrosis factor receptor shedding aminopeptidase regulator
Gene ID	51752
mRNA Refseq	NM_016442
Protein Refseq	NP_057526
MIM	606832

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UniProt ID	Q9NZ08

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