

## ERAP2 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P75756
<b>Synonyms:</b>	Endoplasmic reticulum aminopeptidase 2; L-RAP; ERAP2; LRAP
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q6P179-1/NP_071745.1 (A56-T960)
<b>Gene ID:</b>	64167
<b>Molecular Weight:</b>	115-125 kDa

### PROPERTIES

#### AA Sequence

ATNGERFPWQ	ELRLPSVVIP	LHYDLFVHPN	LTSLDFVASE
KIEVLVSNAT	QFIILHSKDL	EITNATLQSE	EDSRYMKPGK
ELKVLSPAH	EQIALLVPEK	LTPHLKYYVA	MDFQAKLGDG
FEFGYKSTYR	TLGGETRILA	VTDFEPTQAR	MAFPCFDEPL
FKANFSIKIR	RESRHIALSN	MPKVKTIELE	GGLLEDHFET
TVKMSTYLV	YIVCDFHSLS	GFTSSGVKVS	IYASPDKRNQ
THYALQASLK	LLDFYEKYFD	IYYPLSKLDL	IAIPDFAPGA
MENWGLITYR	ETSLLFDPKT	SSASDKLWVT	RVIAHEL AHQ
WFGNLVTMEW	WNDIWLKEGF	AKYMELIAVN	ATYPELQFDD
YFLNVCFEVI	TKDSLNSSRP	ISKPAETPTQ	IQEMFDEVSY
NKGACILNML	KDFLGE EK FQ	KGIIQYLK KF	SYRNAKND DL
WSSLNSNCLE	SDFTSGGVCH	SDPKMTSNML	AFLGENAEVK
EMMTTWTLQK	GIPLLVVKQD	GCSLRLQQER	FLQGVFQEDP
EWRALQERYL	WHIPLTYSTS	SSNVIHRHIL	KSKTDTLDLP
EKTSWVKFNV	DSNGYYIVHY	EGHGWDQLIT	QLNQNH TLLR
PKDRVGLIHD	VFQLVGAGRL	TLDKALDMTY	YLQHETSSPA
LLEGLSYLES	FYHMMDRRN I	SDISENLKRY	LLQYFKPVID
RQSWSDKGSV	WDRMLRSALL	KLACDLNHAP	CIQKAAELFS
QWMESSGKLN	IPTDVLKIVY	SVGAQT TAGW	NYLLEQYELS
MSSAEQNKIL	YALSTSKHQE	KLLKLI ELGM	EGKVIKTQNL
AALLHAIARR	PKGQQLAWDF	VRENWTHLLK	KFDLGSYDIR
MII SGTTAHF	SSKDKLQEVK	LFFESLEAQG	SHLDIFQTVL
ETITKNIKWL	EKNLPTLR TW	LMVNT	

**Biological Activity** Measured by its ability to cleave 50µM fluorogenic peptide substrate, Arg-7-amido-4-methylcoumarin (Arg-AMC) that incubate at room temperature in kinetic mode for 5 minutes. The specific activity is 500.41 pmol/min/µg.

**Appearance** Solution

**Formulation** Supplied as a 0.2 µm filtered solution of 12.5 mM Tris-HCL, 75 mM NaCl, pH 7.5, 50% Glycerol.

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<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	N/A.
<b>Storage &amp; Stability</b>	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
<b>Shipping</b>	Shipping with dry ice

## DESCRIPTION

### Background

ERAP2 protein serves as a key aminopeptidase, playing a pivotal role in the crucial process of peptide trimming. This step is essential for the generation of the majority of peptides that bind to HLA class I molecules. By selectively hydrolyzing basic residues such as Arginine (Arg) and Lysine (Lys), ERAP2 contributes to the precise customization of longer precursor peptides, ensuring they attain the appropriate length for effective presentation on MHC class I molecules.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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