Recombinant Protein Technical Manual

Recombinant Human LRAP/ERAP2 Protein (His Tag)(Active)

RPES3219

Product Data:

Product SKU: RPES3219

Size: 10µg

Species: Human

Expression host: HEK293 Cells

Uniprot: NP_071745.1

Protein Information:

Molecular Mass:	106 kDa
AP Molecular Mass:	11525 kDa
Tag:	N-His
Bio-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.
Purity:	> 98 % as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per µg as determined by the LAL method.
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from sterile 12.5mM Tris, 75mM NaCl, pH 7.5, 50% glycercol
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	FLJ23633;FLJ23701;FLJ23807;L-RAP;LRAP;LRAP. ERAP2

Immunogen Information:

Sequence: Ala 56-Thr 960

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 960-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.