

HLA class I histocompatibility antigen, alpha chain E (HLA-E) Recombinant Protein | HLA-E recombinant protein

Recombinant Human HLA class I histocompatibility antigen, alpha chain E (HLA-E), partial

CATALOG # AAA18695	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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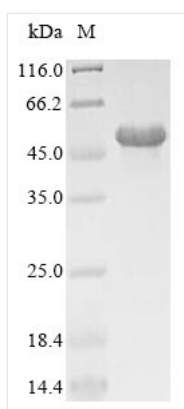
PRODUCT SYNONYMS

HLA class I histocompatibility antigen; alpha chain E (HLA-E); Recombinant Human HLA class I histocompatibility antigen; partial; MHC class I antigen E; HLA-E recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	22-305aa; Extracellular Domain (Old version, reference link: https://www.uniprot.org/uniprot/P13747.fasta?version=188)
Sequence	GSHSLKYFHT SVSRPGRGEP RFISVG YVDD TQFVRFDNDA ASPRMVPRAP WMEQEGSEYW DRETRSARDT AQIFRVNLRT LRGYYNQSEA GSHTLQWMHG CELGPDRRFL RGYEQFAYDG KDYLTLNEDL RSWTAVDTAA QISEQKSND ASEAHRAYL EDTCVELHK YLEKGKETLL HLEPPKTHVT HHPISDHEAT LRCWALGFYP AEITLTWQD GEGHTQDEL VETRPAGDGT FQKWA VVVP SGEEQRYTCH VQHEGLPEPV TLRWKPASQP TIPI
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for HLA-E recombinant protein	Preferably binds to a peptide derived from the signal sequence of most HLA-A, -B, -C and -G molecules.
Product Categories/Family for HLA-E recombinant protein	Immunology

References	Isolation and nucleotide sequence of a cDNA clone encoding a novel HLA class I gene.Mizuno S., Trapani J.A., Koller B.H., Dupont B., Yang S.Y.J. Immunol. 140:4024-4030(1988) Cell surface expression of HLA-E interaction with human beta-2 microglobulin and allelic differences.Ulbrecht M., Courturier A., Martinozzi S., Pla M., Srivastava R., Peterson P.A., Weiss E.H.3.0.CO;2-6>Eur. J. Immunol. 29:537-547(1999) HLA-E, F, and G polymorphism genomic sequence defines new variation spanning the nonclassical class I genes.Ishitani A., Miki A., Williams L.M., Moore Y., Geraghty D.E.Homo sapiens 2,229,817bp genomic DNA of 6p21.3 HLA class I region.Shiina S., Tamiya G., Oka A., Inoko H. HLA-E. A novel HLA class I gene expressed in resting T lymphocytes.Koller B.H., Geraghty D.E., Shimizu Y., Demars R., Orr H.T.J. Immunol. 141:897-904(1988) Ulbrecht M.A new variant of HLA-E*010303 with three synonymous mutations.He X., Xu L., Liu Y., Zeng Y.Cloning of HLA-E cDNA from activated peripheral leukocytes.He X., Xu L., Liu Y., Zeng Y.Polymorphism in the human class I MHC locus HLA-E in Japanese.Ohya K., Kondo K., Mizuno S.Immunogenetics 32:205-209(1990) Mass-spectrometric identification and relative quantification of N-linked cell surface glycoproteins.Wollscheid B., Bausch-Fluck D., Henderson C., O'Brien R., Bibel M., Schiess R., Aebersold R., Watts J.D.Nat. Biotechnol. 27:378-386(2009) Initial characterization of the human central proteome.Burkard T.R., Planyavsky M., Kaupe I., Breitwieser F.P., Buerckstuemmer T., Bennett K.L., Superti-Furga G., Colinge J.BMC Syst. Biol. 5:17-17(2011) Structural features impose tight peptide binding specificity in the nonclassical MHC molecule HLA-E.O'Callaghan C.A., Tormo J., Willcox B.E., Braud V.M., Jakobsen B.K., Stuart D.I., McMichael A.J., Bell J.I., Jones E.Y.Mol. Cell 1:531-541(1998) Definitive high resolution typing of HLA-E allelic polymorphisms identifying potential errors in existing allele data.Grimley C., Kawasaki A., Gassner C., Sageshima N., Nose Y., Hatake K., Geraghty D.E., Ishitani A.Tissue Antigens 60:206-212(2002)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	62912479
NCBI GeneID	3133
NCBI Accession #	NP_005507.3
NCBI GenBank Nucleotide #	NM_005516.5
UniProt Accession #	P13747; Q30169; Q9BT83; Q9GIY7; Q9GIY8
Molecular Weight	36.7 kDa
NCBI Official Full Name	HLA class I histocompatibility antigen, alpha chain E
NCBI Official Synonym Full Names	major histocompatibility complex, class I, E
NCBI Official Symbol	HLA-E
NCBI Official Synonym Symbols	QA1; HLA-6.2
NCBI Protein Information	HLA class I histocompatibility antigen, alpha chain E
UniProt Protein Name	HLA class I histocompatibility antigen, alpha chain E
UniProt Gene Name	HLA-E
UniProt Synonym Gene Names	HLA-6.2; HLAE
UniProt Entry Name	HLAE_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.