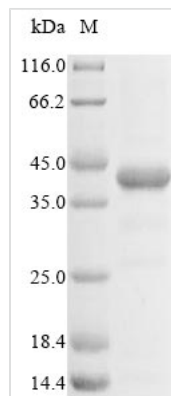




Recombinant Human HLA class I histocompatibility antigen, alpha chain E (HLA-E), partial

Product Code	CSB-BP320269HU
Abbreviation	Recombinant Human HLA-E protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P13747
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	GSHSLKYFHTSVSRPGRGEPFRFISVGYVDDTQFVRFDNDAASPRMVPRAPW MEQEGSEYWDRETRSARDTAQIFRVNLRTLGRYYNQSEAGSHTLQWMHGCE LGPDRRFLRGYEQFAYDGKDYLTNEDLRSWTAVDTAAQISEQKSNDASEAE HQRAYLEDTCVEWLHKYLEKGKETLLHLEPPKTHVTHHPISDHEATLRCWALG FYPAEITLTWQQDGEGHTQDTELVETRPAGDGTGFKWAAVVVPSGEEQRYT CHVQHEGLPEPVTLRWKPASQPTIPI
Research Area	Immunology
Source	Baculovirus
Target Names	HLA-E
Protein Names	Recommended name: HLA class I histocompatibility antigen, alpha chain E Alternative name(s): MHC class I antigen E
Expression Region	22-305aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	36.7 kDa
Protein Length	Extracellular Domain
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Recombinant Human HLA class I histocompatibility antigen, alpha chain E (HLA-E) is produced in the Baculovirus by the expression of human HLA-E protein (22-305aa) with an N-termina-I 10xHis-tag and a C-terminal Myc-tag. The partial-length protein is the extracellular domain of HLA-E protein. SDS-PAGE analysis measured its purity reaching up to 85%. In addition to specific antibody production, this recombinant HLA-E protein may be applied in the field of immunology.

HLA-E exerts a dual role in the immune system. HLA-E presents antigens, including pathogen-derived antigens on the cell surface of most cells. In the innate immune system, HLA-E acts as an effective inhibitory molecule and blocks NK-mediated target cell lysis by preventing NK cell activation. In addition, specific recognition of foreign peptide presented by HLA-E in a TCR dependent manner via CD8+ T-cells could lead to T-cell activation, expansion, and memory formation in the adaptive system. Over-expressed HLA-E has been detected on the tumor cells such as colorectal cancer. And over-expression of HLA-E was regarded as a biomarker for tumor differentiation and to be linked to poor prognosis.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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