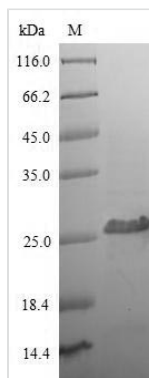




Recombinant Human T-cell surface glycoprotein CD8 alpha chain (CD8A), partial

Product Code	CSB-MP004966HU
Relevance	Identifies cytotoxic/suppressor T-cells that interact with MHC class I bearing targets. CD8 is thought to play a role in the process of T-cell mediated killing. CD8 alpha chains binds to class I MHC molecules alpha-3 domains.
Abbreviation	Recombinant Human CD8A 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.	P01732
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	SQFRVSPLDRTWNLGETVELKCQVLLSNPTSGCSWLFQPRGAAASPTFLLYL SQNKPKAAEGLDTQRFSGKRLGDTFVLTLSDFRRENEGYYFCSALSNSIMYFS HFVPVFLPAKPTTTPAPRPPTPAPTIASQPLSLRPEACRPAAGGAVHTRGLDFA CD
Source	Mammalian cell
Target Names	CD8A
Expression Region	22-182aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-Myc-tagged
Mol. Weight	21.6kDa
Protein Length	Partial

Image



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

Based on the SEQUEST from database of Mammalian Cell host and target protein, the LC-MS/MS Analysis result of CSB-MP004966HU could indicate that this peptide derived from Mammalian Cell-expressed Homo sapiens (Human) CD8A.

Based on the SEQUEST from database of Mammalian Cell host and target protein, the LC-MS/MS Analysis result of CSB-MP004966HU could indicate that this peptide derived from Mammalian Cell-expressed Homo sapiens (Human) CD8A.

Description

The production of this Recombinant Human CD8A protein required the insertion of a DNA fragment (CD8A, 22-182aa) into a plasmid vector and the transferral of this vector into Mammalian cell cells (the step of transformation). The cells were then cultured and induced to express the CD8A protein. This recombinant protein was fused with N-terminal 6xHis tag. Its purity is 90%+ determined by SDS-PAGE.

CD8A(also called MAL) is a gene encoding a protein named T-cell surface glycoprotein CD8 alpha chain (also known as T-lymphocyte differentiation antigen T8/Leu-2 or CD8a) in human. CD8a protein can form homodimers and heterodimers with CD8a and CD8 β , respectively. Both homodimers and heterodimers are CD8 protein, which is a co-receptor for T cell receptor when it interacts with MHC class I–peptide complex. the CD8a is required for expression of both dimers on the cell surface. Emerging evidence has revealed that CD8A gene is involved in coronavirus biology, and is relevant to COVID-19 prognosis.

Shelf Life

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.