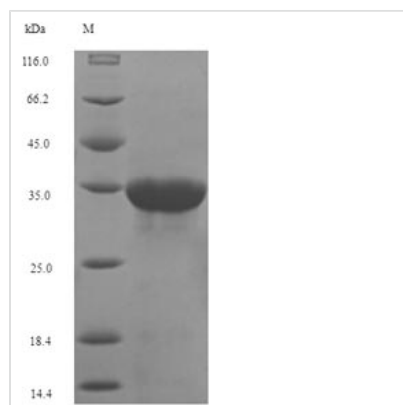




Recombinant Human T-cell surface glycoprotein CD8 alpha chain (CD8A), partial

Product Code	CSB-EP004966HU
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
Alias	T-lymphocyte differentiation antigen T8/Leu-2 CD_antigen: CD8a
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	SQFRVSPLDRTWNLGETVELKCQVLLSNPTSGCSWLFQPRGAAASPTFLLYL SQNKPKAAEGLDTQRFSGKRLGDTFVLTLSDFRRENEGYYFCSALSNSIMYFS HFVPVFLPAKPTTTPAPRPPTPAPTIASQPLSLRPEACRPAAGGAVHTRGLDFA CD
Research Area	Immunology
Source	E.coli
Target Names	CD8A
Expression Region	22-182
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	33.6kDa
Protein Length	Extracellular Domain
Image	



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

Description

This Recombinant Human T-cell surface glycoprotein CD8 alpha chain(CD8A) is a partial-length protein produced in the E.coli. It contains 22-182aa (Extracellular Domain) of the human CD8A protein and carries a 6xHis-SUMO-tag at the N-terminus. SDS-PAGE analysis measured its purity, reaching up to 90%. Under reducing conditions, this CD8A protein migrated to a band of about 34-37 kDa on the gel. Post-translational modifications such as glycosylation results in a slightly higher result. This recombinant CD8A protein may be used to immunize rabbits or mice to generate specific antibodies and in the CD8A-related immunology studies.

CD8 glycoprotein is expressed as either a homodimer CD8 $\alpha\alpha$ or a heterodimer CD8 $\alpha\beta$ on the surface of T cells. CD8 T cells play a major role in the adaptive immune defense against intracellular pathogens. CD8 α or CD8A contains a stalk region directly adjacent to the Ig-like domain and may therefore play a role in mediating CD8-MHCI interaction.

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

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.