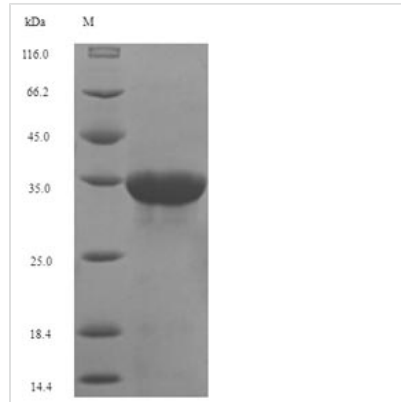




Recombinant Human T-cell surface glycoprotein CD8 alpha chain (CD8A), partial

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.
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
Lead Time	3-7 business days
Research Area	Immunology
Source	E.coli
Gene 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 Description	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.