## **PRODUCT INFORMATION**

**Expression system** Baculovirus

**Domain** 22-182aa

**UniProt No.** P01732

NCBI Accession No. NP\_001759

### **Alternative Names**

CD8A, T-cell surface glycoprotein CD8 alpha chain, T-lymphocyte differentiation antigen T8/Leu-2, CD8a, MAL, CD8, Leu2, p32, T-cell surface glycoprotein CD8 alpha chain isoform 1

## **PRODUCT SPECIFICATION**

## **Molecular Weight**

18.7 kDa (170aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity > 95% by SDS-PAGE

**Endotoxin level** < 1 EU per 1ug of protein (determined by LAL method)

**Tag** His-Tag

Application SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# BACKGROUND

### Description

CD8 alpha, also known as T-cell surface glycoprotein CD8 alpha chain isoform 1, is a member of integralmembrane glycoprotein that plays an essential role in the immune response and serves multiple functions inresponses. It interacts with the T-cell receptor and the MHC class I proteins presented by antigen



presentingcells. Homodimers of this protein at the cell surface provides a survival mechanism allowing conjugation and lysisof multiple target cells in NK-cells. Recombinant human CD8 alpha, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

#### Amino acid Sequence

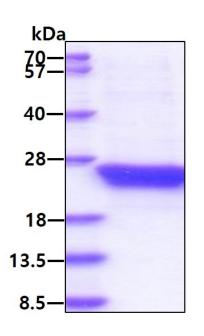
<ADP>SQFRVSP LDRTWNLGET VELKCQVLLS NPTSGCSWLF QPRGAAASPT FLLYLSQNKP KAAEGLDTQR FSGKRLGDTF VLTLSDFRRE NEGYYFCSAL SNSIMYFSHF VPVFLPAKPT TTPAPRPPTP APTIASQPLS LRPEACRPAA GGAVHTRGLD FACD<HHHHHH>

### **General References**

Harland KL., et al. (2014) Nat Commun. 5:3547. Chen S., et al. (2019) J Cancer. 10:697-707.

## DATA

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

