

Recombinant Human CD8b molecule, His-tagged

Cat. No. CD8B-423H **Lot. No.** (See product label)

SPECIFICATION

| | |
|-------------------------|---|
| Product Overview | CD8B, 22-170aa, Human, His tag, E.coli |
| Species | Human |
| Source | E.coli |
| ProteinLength | 22-170 a.a. |
| Description | <p>CD8 antigen is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell-cell interactions within the immune system. The CD8 antigen, acting as a coreceptor, and the T-cell receptor on the T lymphocyte recognize antigens displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. The functional coreceptor is either a homodimer composed of two alpha chains, or a heterodimer composed of one alpha and one beta chain. Both alpha and beta chains share significant homology to immunoglobulin variable light chains. This gene encodes the CD8 beta chain isoforms. Recombinant human CD8B protein, fused to His-tag at N-terminus, was expressed in E.coli.</p> |
| Form | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol |
| Molecular Mass | 19.2kDa (172aa) |
| AA Sequence | <p>MGSSHHHHHH SSGLVPRGSH MGSLQQTPAY IKVQTNKMVM LSCEAKISLS NMRIYWLRQR QAPSSDSHHE FLALWDSAKG TIHGEEVEQE KIAVFRDASR FILNLTSVKP EDSGIYFCMI VGSPELTFGK GTQLSVVDFL PTTAQPTKKS</p> |

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TLKKRVCRLP RPETQKGPLC SP

Purity >80% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name CD8B CD8b molecule [Homo sapiens]

Official Symbol CD8B

Synonyms CD8B; CD8b molecule; CD8 antigen, beta polypeptide 1 (p37) , CD8B1; T-cell surface glycoprotein CD8 beta chain; CD8 antigen, beta polypeptide 1 (p37); T lymphocyte surface glycoprotein beta chain; LY3; P37; LEU2; LYT3; CD8B1; MGC119115;

Gene ID 926

mRNA Refseq NM_001178100

Protein Refseq NP_001171571

MIM 186730

UniProt ID P10966

Chromosome Location 2p12

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Pathway

Adaptive Immune System, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Disease, organism-specific biosystem; Downstream signaling in naive CD8+ T cells, organism-specific biosystem;

Function

MHC class I protein binding; coreceptor activity; protein binding;

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