

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	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol
Molecular Mass	19.2kDa (172aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSLQQTPAY IKVQTNKMVM LSCEAKISLS NMRIYWLRQR QAPSSDSHHE FLALWDSAKG TIHGEEVEQE KIAVFRDASR FILNLTSVKP EDSGIYFCMI VGSPELTFGK GTQLSVVDLF PTTAQPTKKS

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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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