Recombinant Human CD8B Protein (Met1-Pro170), Biotinylated

Cat. No. CD8B-479H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD8B Protein (P10966-1) (Met1-Pro170) was produced by HEK293 Cells expression system. This protein was expressed with six amino acids (LEVLFQ) at the C- terminus. The purified protein was biotinylated in vitro.
Species	Human
Source	HEK293
ProteinLength	Met1-Pro170
Description	CD8B (CD8b molecule), also known as P37 and LEU2, contains 1 Ig-like V-type (immunoglobulin-like) domain. The 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. P37 gene encodes the CD8 beta chain isoforms. Multiple alternatively spliced transcript variants encoding distinct membrane associated or secreted isoforms have been described. A pseudogene, also located on chromosome 2, has been identified. CD8 is thought to play a role in the process of T-cell mediated killing.

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Predicted N Terminal	Leu 22
Form	Lyophilized from sterile PBS. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant human CD8B comprises 156 amino acids and has a predicted molecular mass of 17.6 kDa.
Endotoxin	< 1.0 EU per μg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4℃ before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.
Conjugation	Biotin

GENE INFORMATION

Gene Name	CD8B CD8b molecule [Homo sapiens]

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Official Symbol	CD8B
Synonyms	CD8B; CD8b molecule; LY3; P37; LEU2; LYT3; CD8B1; MGC119115;
Gene ID	926
mRNA Refseq	NM_001178100
Protein Refseq	NP_001171571
MIM	186730
UniProt ID	P10966

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