



Recombinant Protein Technical Manual

Recombinant Human CD8 beta/CD8B Protein (Fc Tag)
RPES4198

Product Data:

Product SKU: RPES4198

Size: 20µg

Species: Human

Expression host: HEK293 Cells

Uniprot: P10966

Protein Information:

Molecular Mass: 44 kDa

AP Molecular Mass: 50 kDa

Tag: C-Fc

Bio-activity:

Purity: > 93 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg of the protein as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: T-Cell Surface Glycoprotein CD8 Beta Chain; CD8b; CD8B; CD8B1; LEU2; LY3; LYT3; P37

Immunogen Information:

Sequence: Met 1-Pro 170

Background:

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.