

Recombinant Human LEU3/CD4 Protein

Catalog No.: RP00079 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	920	P01730

Tags

C-His

Synonyms

CD4;CD4mut

Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

Calculated MW	Observed MW
41.53 kDa	54 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

This protein is a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigens and is also a receptor for the human immunodeficiency virus. This protein is expressed not only in T lymphocytes, but also in B cells, macrophages, and granulocytes. It is also expressed in specific regions of the brain. The protein functions to initiate or augment the early phase of T-cell activation, and may function as an important mediator of indirect neuronal damage in infectious and immune-mediated diseases of the central nervous system.

Basic Information

Description

Recombinant Human LEU3/CD4 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Lys26-Trp390) of human sCD4 (Accession #NP_000607.1) fused with a 6×His tag at the C-terminus.

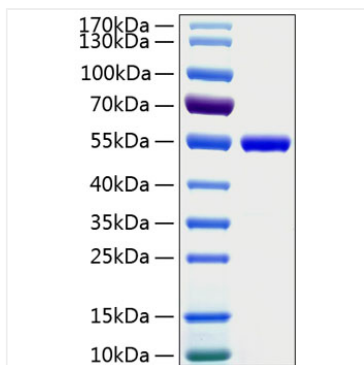
Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human CD4 Protein at 1 μg/mL (100 μL/well) can bind CD4 Rabbit mAb with a linear range of 0.006-0.18 ng/mL.

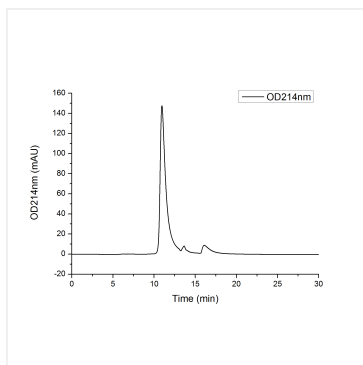
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

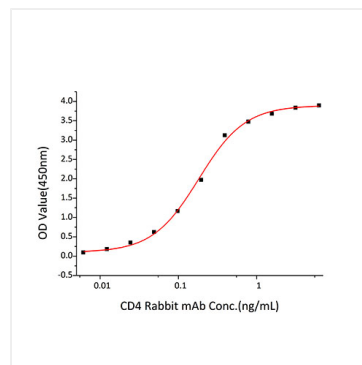
Validation Data



Recombinant Human CD4 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 54 kDa.



The purity of Human CD4 Protein (Cat.RP00079) was greater than 90% as determined by SEC-HPLC.



Immobilized Human CD4 Protein at 1 μ g/mL (100 μ L/well) can bind CD4 Rabbit mAb with a linear range of 0.006-0.18 ng/mL.