Recombinant Human IL-2RA/CD25 Protein

Catalog No.: RP01405

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Sequence Information

Species
Human

Gene ID
3559

Swiss Prot
P01589

Tags
C-hFc&His

Synonyms
IL2RA, CD25, IDDM10, IL2R, IMD41, TCGFR, p55, interleukin-2 receptor subunit alpha,CD25, IDDM10,IL2R,IMD41,TCGFR,p55

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
48.53 kDa

Observed MW
Approximately 70 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.

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

The interleukin 2 (IL2) receptor alpha (IL2RA) and beta (IL2RB) chains, together with the common gamma chain (IL2RG), constitute the high-affinity IL2 receptor. Homodimeric alpha chains (IL2RA) result in low-affinity receptor, while homodimeric beta (IL2RB) chains produce a medium-affinity receptor. Normally an integral-membrane protein, soluble IL2RA has been isolated and determined to result from extracellular proteolyisis. Alternately-spliced IL2RA mRNAs have been isolated, but the significance of each is presently unknown.

Basic Information

Description
Recombinant Human IL-2RA/CD25 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu22-Cys213) of human CD25/IL-2Ralpha (Accession #NP_000408.1) fused with a Fc, 6×His tag at the C-terminus.

Activity
Measured by its binding ability in a functional ELISA. Immobilized human IL2 (Catalog: RP01039) at 2 μg/ml (100 μL/well) can bind human IL2RA with a linear range of 0.01-396.60 ng/mL

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

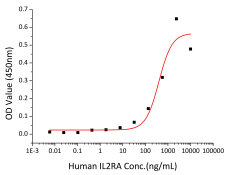
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

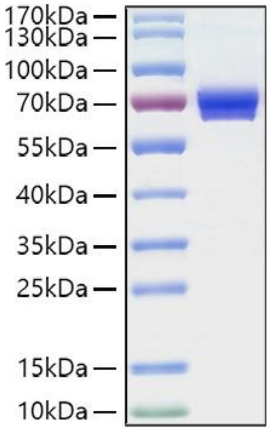
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Validation Data



Immobilized human IL2 (Catalog: RP01039) at 2 μg/ml (100 μL/well) can bind human IL2RA with a linear range of 0.01-396.60 ng/mL



Recombinant Human IL-2RA/CD25 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.