Recombinant Human CD25/IL-2R alpha Protein

Catalog No: RP00076

Category: Recombinant Protein

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

Bio-Activity:
Measured by its binding ability in a functional ELISA. Immobilized Recombinant human IL2R at 2 μg/mL (100 μL/well) can bind Recombinant human IL2 with a linear range of 5-30 ng/mL.

Sequence Information

Species: Human
Tags: 6×His tag at the C-terminus
Synonyms: CD25;IDDM10;IL2R;IMD41;p55;TCGFR

Gene ID: 3559
Swiss Prot: P01589

Product Information

Source: HEK293 cells
Purity: > 97% by SDS-PAGE.
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: Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
Storage: Store the lyophilized protein at -20°C to -80 °C for long term. 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.

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 proteolysis. Alternately-spliced IL2RA mRNAs have been isolated, but the significance of each is presently unknown.

Validated Data

Recombinant Human CD25/IL-2R alpha Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 35-40 kDa. Immobilized Recombinant human IL2R at 2 μg/mL (100 μL/well) can bind Recombinant human IL2 with a linear range of 5-30 ng/mL.