

## Human CD25 (IL-2R) Protein (C-Fc-Avi)

|                           |                  |
|---------------------------|------------------|
| <b>Catalog Number:</b>    | 812801, 812802   |
| <b>Size:</b>              | 25 ug, 100 ug    |
| <b>Target Name:</b>       | IL2RA, CD25, p55 |
| <b>Regulatory Status:</b> | RUO              |

### PRODUCT DETAILS

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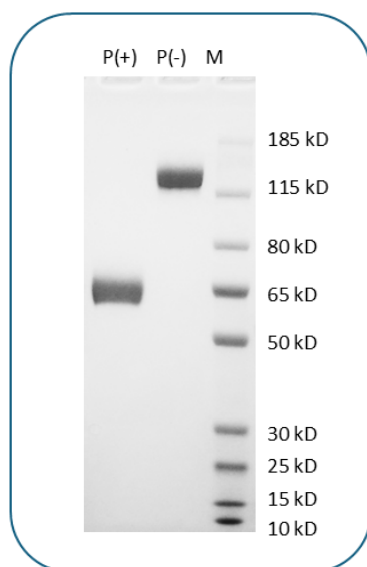
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application:</b>           | ELISA, BLI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Format:</b>                | Liquid, Purified                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Expression Host:</b>       | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species:</b>               | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Sources:</b>               | Recombinant Human CD25 (Glu22-Cys213) with C-terminus Fc-Avi-tag is expressed in CHO cell.                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Accession Number:</b>      | P01589                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Weight:</b>      | The protein has a predicted molecular weight of 50.2 kDa. Under DTT-reducing conditions, it migrates at approximately 65 kDa on SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                    |
| <b>Affinity Tag:</b>          | C-Fc-Avi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity:</b>                | >95% based on SDS-PAGE under reducing condition                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Formulation:</b>           | 1xPBS buffer, pH7.4, 0.22 µm filtered                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Endotoxin level:</b>       | Not tested                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Concentration:</b> | 25µg size is bottled at 0.2mg/mL concentration. 100 µg size is supplied at a lot-specific concentration.                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage and Handling:</b>  | Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4°C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 µm-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at ≤ -70°C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability. |

### BACKGROUND INFORMATION

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CD25 (IL2RA), a type I transmembrane glycoprotein, is expressed on activated T cells, regulatory T cells, and dendritic cells. It binds IL-2 with low affinity on its own, but upon associating with the IL-2 receptor beta (CD122) and common gamma chain (CD132), it forms a high-affinity complex that triggers intracellular signaling pathways like MAPK and JAK/STAT. CD25 is involved in immune regulation and plays a role in autoimmune diseases, including type 1 diabetes. Soluble CD25 (sIL-2Ralpha) is released during immune responses and is a marker for tumor burden in hematological malignancies, including leukemias and lymphomas, as well as some solid tumors like melanoma and carcinomas. The presence of sIL-2Ralpha in circulation reflects tumor activity and is associated with immune modulation in cancer progression.

## PRODUCT DATA



Human CD25 (C-Fc-Avi) on SDS-PAGE under reducing condition (P+) and non-reducing condition (P-). The gel was stained for 1 hour with BlinkBlue (catalog 700102). The purity of this protein appears to be greater than 95%.

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