HUMAN IL7RA PROTEIN, HFC TAG

Cat.#: 11621
Product Name: Human IL7RA Protein
Size : 10 µg, 50 µg and 100 µg
Synonyms: CD127;CDW127;IL-7R-alpha;IL7RA;ILRA
Target: IL7RA
UNIPROT ID: P16871
Description: Recombinant Human IL7RA with C-terminal human Fc tag
Background: The protein encoded by this gene is a receptor for interleukin 7 (IL7). The function of this receptor requires the interleukin 2 receptor, gamma chain (IL2RG), which is a common gamma chain shared by the receptors of various cytokines, including interleukins 2, 4, 7, 9, and 15. This protein has been shown to play a critical role in V(D)J recombination during lymphocyte development. Defects in this gene may be associated with severe combined immunodeficiency (SCID). Alternatively spliced transcript variants have been found. [provided by RefSeq, Dec 2015]
Species/Host: HEK293
Molecular Weight: The protein has a predicted molecular mass of 51.0 kDa after removal of the signal peptide.The apparent molecular mass of IL7RA-hFc is approximately 55-100 kDa due to glycosylation.
Molecular Characterization: IL7RA(Glu21-Gly236) hFc(Glu99-Ala330)
Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.
Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

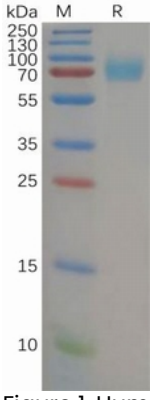

Figure 1. Human IL7RA Protein, hFc Tag on SDS-PAGE under reducing condition.

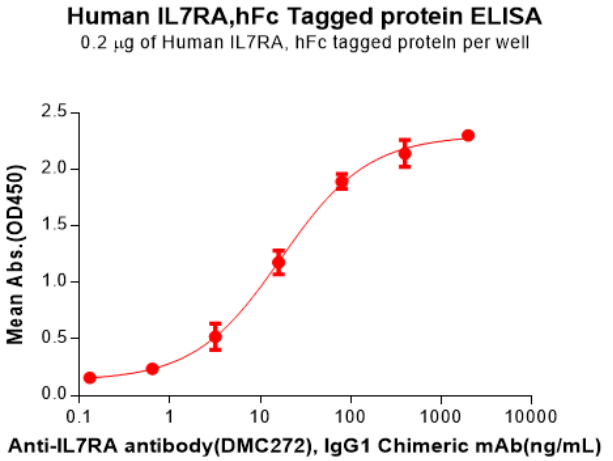

Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human IL7RA Protein, hFc Tag(11621) can bind Anti-IL7RA antibody(DMC272), IgG1 Chimeric mAb in a linear range of 3.20-80 ng/mL.