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Recombinant Human Interleukin-7/IL-7 Protein (Active)

Catalog No. PKSH030436

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Interleukin-7; IL-7; IL7

Species Human
Expression Host E.coli

SequenceAsp26-His177AccessionNP_000871.1Calculated Molecular Weight17.5 kDaObserved molecular weight19 kDa

Bioactivity Measured by its binding ability in a functional ELISA.Immobilized human IL7 at 10

μg/ml (100 μl/well) can bind human IL7Ra-Fch, The EC50 of human IL7Ra-Fch is 15.2-35.6 ng/ml.2. Measured in a cell proliferation assay using antibody against CD3-activated human peripheral blood lymphocytes (PBL). The ED50 for this

effect is typically 1-10 ng/ml.

Properties

Purity > 90 % as determined by reducing SDS-PAGE.

Storage Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.

Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

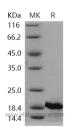
reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile 25mM NaH2PO4, 400mM NaCl, pH 6.8

Reconstitution Please refer to the printed manual for detailed information.

Data



Background

IL7, also known as interleukin 7, is a hematopoietic growth factor which belongs to the IL-7/IL-9 family. It is secreted by stromal cells in the bone marrow and thymus. IL7 stimulates the proliferation of lymphoid progenitors. It is important for proliferation during certain stages of B-cell maturation. IL7 and the hepatocyte growth factor (HGF) form a heterodimer

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that functions as a pre-pro-B cell growth-stimulating factor. It is found to be a cofactor for V(D)J rearrangement of the T cell receptor beta (TCRB) during early T cell development. IL7 can be produced locally by intestinal epithelial and epithelial goblet cells, and may serve as a regulatory factor for intestinal mucosal lymphocytes.

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