

Product Description

Pioneering GTPase and Oncogene Product Development since 2010

HUMAN IL-7 PROTEIN

货号: 12031 产品全名: 人 IL-7 蛋白 规格: 10/50/100 μg 基因符号 Interleukin-7;IL-7;IL7 目标蛋白: IL-7

UNIPROT ID: P13232

描述: Recombinant Human Interleukin-7 is produced by our E.coli expression system and the target gene encoding Asp26-His177 is expressed.

背景: 人 Interleukin 7 (IL-7) is a potent lymphoid cell growth factor stimulating the proliferation of lymphoid progenitors. IL7 can associate with the hepatocyte growth factor (HGF) to form a hybrid cytokine that functions as a pre-pro-B cell growth-stimulating factor. Human IL7 cDNA encodes a 177 amino acid precursor protein containing a 25 amino acid signal peptide and a 152 amino acid mature protein. Human and mouse IL7 share 65% sequence identity in the mature region and both exhibit cross-species activity. IL-7 signals via IL-7 receptor (IL7R) activating multiple pathways including JaK/STAT and PI3K/AKT, which regulate lymphocyte survival, glucose uptake, proliferation, and differentiation. IL-7 is also associated with cytoplasmic IL2-R gamma for signal transduction.

物种/宿主: E.coli

分子量: 17.5 KDa

分子特征: Not available

纯化: Greater than 95% as determined by reducing SDS-PAGE.

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.

储存和运输: 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.



Product Description

Pioneering GTPase and Oncogene Product Development since 2010

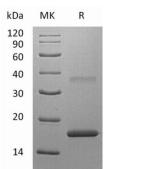
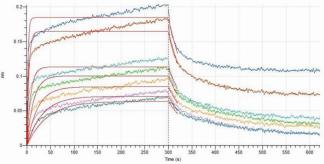


Figure 1. Greater than 95% as determined by reducing SDS-PAGE.



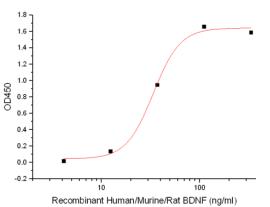


Figure 2. Measured in a cell proliferation assay using PHA-activated human peripheral blood lymphocytes (PBL). The ED50 for this effect is 0.02-0.08 ng/ml.

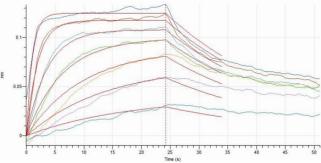


Figure 3. Loaded Human IL-7RA-His on HIS1K Biosensor, can bind Human IL-7 with an affinity constant of 15.04 nM as determined in BLI assay.

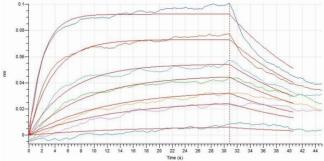


Figure 5. Loaded Mouse IL-7RA-Fc on Protein A Biosensor, can bind Human IL-7 with an affinity constant of 29.2 nM as determined in BLI assay.

Figure 4. Loaded Human IL-7RA-Fc-His on HISIK Biosensor, can bind Human IL-7 with an affinity constant of 18.59 nM as determined in BLI assay.