

IL-7 (C-6His), Human, Recombinant

Cat. No. : GPCK080

产品信息

物种	Human
表达宿主	Human Cells
序列信息	Asp26-His177
检索号	P13232
标签	C-6His
分子量	18.4 kDa
有效期	12 months
生物活性	Measured in a cell proliferation assay using PHA-activated human peripheral blood mononuclear cell (PBMC). The ED50 for this effect is 50-300 pg/mL.

产品特性

内毒素 (EU/μg)	< 0.1
保存	Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months.
运输	Ambient temperature or ice pack.
制剂	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
复溶	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

背景介绍

Human 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.

