

Recombinant Human IL7R Protein, C-His-tagged

Cat. No. IL7R-071H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human IL7R Protein with C-His tag was expressed in E. coli.

Species Human

Source E.coli

Description

Interleukin 7 (IL-7) was originally described as a factor capable of inducing in vitro proliferation of pre-B cells from marrow cultures. The IL-7 gene encodes a protein 177 amino acids in length. IL-7 exerts its biological function through the IL-7 receptor which is expressed on pre-B cells, thymocytes and bone marrow-derived macrophages. The IL-7 receptor is composed of an IL-7 receptor-specific chain and the IL-2 receptor γ chain common to the IL-2, IL-4, IL-7, IL-9 and IL-15 receptors. IL-7 stimulation leads to the activation of Janus tyrosine kinase family members JAK1 and JAK3. Other studies have shown that in T cells, the IL-7 receptor-specific chain associates with the Src kinases family Lck and Fyn. IL-7 induces phosphorylation of insulin receptor substrate-1 (IRS-1) and Insulin receptor substrate-2 (IRS-2), originally called 4PS.

Molecular Mass ~24 kDa

AA Sequence

ESGYAQNGDLEDAELDDYSFSCYSQLEVNGSQHSLTCAFEDPDVNITNLEFEICGAL
VEVKCLNFRKLQEIFYFIETKKFLLIGKSNICVKVGEKSLTCKKIDLTITVKEAPFDLSVV
YREGANDFVVTFNSTSHLQKKYVKVLMHDVAYRQEKENKWTHTVNLSSSTKLTLLQRK
LQPAAMYEIKVRSIPDHYFKGFWSEWSPSYFFRTPEINNSSGEMD

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Purity	Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).
Notes	For research use only, not for use in diagnostic procedure.
Storage	Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.
Concentration	≥0.5 mg/mL
Storage Buffer	PBS, 4M Urea, pH7.4
GENE INFORMATION	
Gene Name	IL7R interleukin 7 receptor [Homo sapiens (human)]
Official Symbol	IL7R
Synonyms	IL7R; interleukin 7 receptor; interleukin-7 receptor subunit alpha; CD127; IL-7RA; CD127 antigen; IL-7R subunit alpha; IL-7 receptor subunit alpha; interleukin 7 receptor alpha chain; interleukin 7 receptor isoform H5-6; ILRA; IL7RA; CDW127; IL-7R-alpha;
Gene ID	3575
mRNA Refseq	NM_002185
Protein Refseq	NP_002176
MIM	146661

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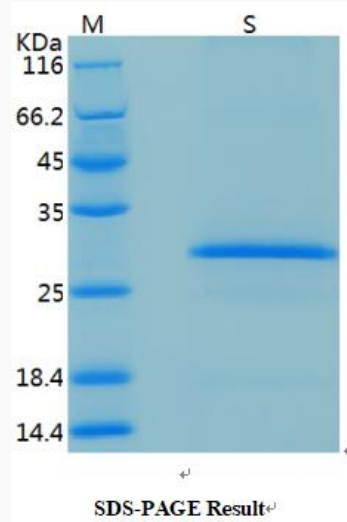
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UniProt ID

P16871

SDS-PAGE



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