

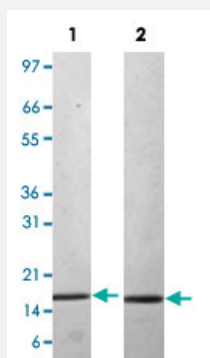
Bioactive

IL7 (Human) Recombinant Protein

Catalog # P4417

Size 10 ug

Applications



Lane 1: non-reducing conditions

Lane 2: reducing conditions

Specification

Product Description

Human IL7 (P13232) recombinant protein expressed in *Escherichia coli*.

Sequence

MDCDIEGKDGKQYESVLMVSIQQLDSMKEIGSNCLNNEFNFFKRHICDANKEGMFLFRAARKLR
QFLKMNSTGDFDLHLLKVSEGTILLNCTGQVKGRKPAALGEAQPTKSLEENKSLKEQKKLNDLC
FLKRLLEIKTCWNKILMGTKEH

Host

Escherichia coli

Theoretical MW (kDa)

17.4

Form

Lyophilized

Preparation Method

Escherichia coli expression system

Endotoxin Level

< 0.1 EU/ug

Activity

The activity is determined by the dose-dependant stimulation of mouse 2E8 cells and is typically less than 0.5 ng/mL.

Quality Control Testing

1 ug/lane in 4-20% Tris-Glycine gel Stained with Coomassie Blue
Lane 1: non-reducing conditions
Lane 2: reducing conditions

Storage Buffer

No additive

Storage Instruction

Store at -20°C on dry atmosphere.
After reconstitution with sterilized water, store at -20°C or lower.
Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — IL7

Entrez GeneID [3574](#)

Protein Accession# [P13232](#)

Gene Name IL7

Gene Alias IL-7

Gene Description interleukin 7

Omim ID [146660](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene is a cytokine important for B and T cell development. This cytokine and the hepatocyte growth factor (HGF) form a heterodimer that functions as a pre-pro-B cell growth-stimulating factor. This cytokine is found to be a cofactor for V(D)J rearrangement of the T cell receptor beta (TCRB) during early T cell development. This cytokine can be produced locally by intestinal epithelial and epithelial goblet cells, and may serve as a regulatory factor for intestinal mucosal lymphocytes. Knockout studies in mice suggested that this cytokine plays an essential role in lymphoid cell survival. [provided by RefSeq]

Other Designations IL7 nirs variant 6

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [Hematopoietic cell lineage](#)
- [Jak-STAT signaling pathway](#)

Disease

- [Asthma](#)
- [Bronchiolitis](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Infant](#)
- [Multiple Sclerosis](#)
- [Respiratory Syncytial Virus Infections](#)