

Bioactive

IL7 (Human) Recombinant Protein

Catalog # P8301

Size 2 x 10 ug

Specification

Product Description	Human IL7 (P13232, 26 a.a. - 177 a.a.) partial recombinant protein expressed in <i>Escherichia coli</i> .
Sequence	DCDIEGKDGKQYESVLMVSDQLLD SMKEIGSNCLNNEFNFFKRHICDANKEGMFLFRAARKLRQ FLKMNSTGDFDLHLLKVSEGTILLNCTGQVKGRKPAALGEAQPTKSLEENKSLKEQKKLNDLCF LKRLLEIKTCWNKILMGTKEH
Host	<i>Escherichia coli</i>
Theoretical MW (kDa)	17.4
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Purity	> 97% by SDS-PAGE
Activity	The ED ₅₀ is < 0.5 ng/mL as determined by the dose-dependant stimulation of murine 2E8 cells, corresponding to a specific activity of 2.0 x 10 ⁶ IU/mg.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS pH 7.4
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. 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](#)