

Bioactive

# IL7 (Human) Recombinant Protein

Catalog # P7387 Size 25 ug

# **Applications**

### Result of activity analysis

Result of activity analysis

Specification	
Product Description	Human IL7 (P13232, 26 a.a 177 a.a.) partial recombinant protein with His tag expressed in CHO c ells.
Sequence	DCDIEGKDGKQYESVLMVSIDQLLDSMKEIGSNCLNNEFNFFKRHICDANKEGMFLFRAARKLRQ FLKMNST
Host	Mammals
Theoretical MW (kDa)	24 ~ 34
Form	Lyophilized
Preparation Method	_x005F_x000Dx000D_ Mammalian cell (CHO) expression system_x005F_x000Dx000D_
Purity	> 95% as analyzed by SDS-PAGE.
Endotoxin Level	< 0.2 EU/ ug of protein (gel clotting method)
Activity	ED <sub>50</sub> < 0.2 ng/mL, measured in a cell proliferation assay using 2E8 cells.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.



#### **Product Information**

Storage Buffer	Lyophilized from PBS. Reconstitute the lyophilized powder in ddH <sub>2</sub> O up to 100 ug/mL.
Storage Instruction	Store at 4°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

## **Applications**

- Functional Study
- SDS-PAGE

Gene Info — IL7	
Entrez GenelD	<u>3574</u>
Protein Accession#	P13232
Gene Name	IL7
Gene Alias	IL-7
Gene Description	interleukin 7
Omim ID	146660
Gene Ontology	<u>Hyperlink</u>
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 g rowth-stimulating factor. This cytokine is found to be a cofactor for V(D)J rearrangement of the T c ell receptor beta (TCRB) during early T cell development. This cytokine can be produced locally b y 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