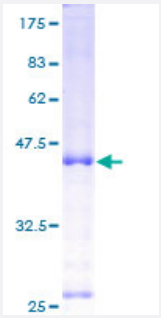
Full-Length

IL7 (Human) Recombinant Protein (P01)

Catalog # H00003574-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human IL7 full-length ORF (AAH47698, 26 a.a. - 177 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	DCDIEGKDGKQYESVLVVSIDQLLDSMKEIGSNCLNNEFNFFKRHICDANKEGMFLFRAARKLRQFLKMNSTGDFDLHLLKVSEGTTILLNCTGQVKGRKPAALGEAQPTKSLEENKSLKEQKKLNDLCFLKRLLQEIKTCWNKILMGTKEH
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	42.46
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — IL7

Entrez GeneID	3574
GeneBank Accession#	BC047698
Protein Accession#	AAH47698
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