

## IL12P40 recombinant protein

IL12P40, 23-328aa, Human, His tag, Baculovirus

|                              |                            |                                 |
|------------------------------|----------------------------|---------------------------------|
| CATALOG #<br><b>AAA48721</b> | HOST<br><b>Baculovirus</b> | APPLICATIONS<br><b>SDS-Page</b> |
|------------------------------|----------------------------|---------------------------------|

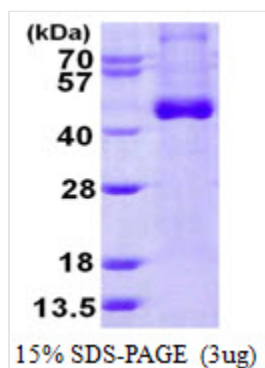
### PRODUCT SYNONYMS

IL12P40; 23-328aa; Human; His tag; Baculovirus; interleukin 12 subunit beta; CLMF; NKSF; CLMF2; NKSF2; IL-12B; IL12P40 recombinant protein

### PRODUCT SPECIFICATIONS

|                                                         |                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                    | Baculovirus                                                                                                                                                                                                                                                                                                                                                         |
| Purity/Purification                                     | > 90% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                   |
| Form/Format                                             | Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 100mM NaCl, 0.1mM PMSF                                                                                                                                                                                                                                                                   |
| Concentration                                           | 0.25mg/ml (determined by Bradford assay) (varies by lot)                                                                                                                                                                                                                                                                                                            |
| Sequence                                                | ADPIWELKKD VYVVELDWYP DAPGEMVLT CDTPEEDGIT WTLDSSEVL GSGKTLTIQV KEFGDAGQYT<br>CHKGGEVLSH SLLLLHKKED GIWSTDILKD QKEPKNKTFL RCEAKNYSGR FTCWWLTTIS TDLTFSVKSS<br>RGSSDPQGVV CGAATLSAER VRGDNKEYEY SVECQEDSAC PAAEESLPIE VMVDAVHKLK YENYTSSFFI<br>RDIKPDPPK NLQLKPLKNS RQVEVSWEYP DTWSTPHSYF SLTFCVQVQG KSKREKKDRV FTDKTSATVI<br>CRKNASISVR AQDRYYSSSW SEWASVPCSH HHHHH |
| Sequence Length                                         | 328                                                                                                                                                                                                                                                                                                                                                                 |
| Applicable Applications for IL12P40 recombinant protein | SDS-PAGE                                                                                                                                                                                                                                                                                                                                                            |
| Antigen Species                                         | Human                                                                                                                                                                                                                                                                                                                                                               |
| Tag Information                                         | His-tag                                                                                                                                                                                                                                                                                                                                                             |
| Endotoxin Level                                         | < 1.0 EU per 1 microgram of protein (determined by LAL method)                                                                                                                                                                                                                                                                                                      |
| Preparation and Storage                                 | Can be stored at 4 degree C short term (1-2 weeks).<br>For long term storage, aliquot and store at -20 degree C or -70 degree C.<br>Avoid repeated freezing and thawing cycles.                                                                                                                                                                                     |

### IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for IL12P40 recombinant protein | IL12P40 (interleukin 12 subunit beta), also known as natural killer cell stimulatory factor 2, or cytotoxic lymphocyte maturation factor 2, p40, belongs to the type I cytokine receptor family. This protein is a cytokine that can act as a growth factor for activated T and NK cells, enhance the lytic activity of NK/lymphokine-activated killer cells, and stimulate the production of IFN-gamma by resting PBMC. Interleukin 12 is a disulfide-linked heterodimer composed of the 40 kD cytokine receptor like subunit encoded by this gene, and a 35 kD subunit encoded by IL12A. This cytokine is expressed by activated macrophages that serve as an essential inducer of Th1 cells development. Recombinant human IL12P40 protein, fused to His-tag at C-terminus, was expressed in Hi-5 cell using baculovirus expression system and purified by using conventional chromatography. |
| Product Categories/Family for IL12P40 recombinant protein   | Hormones & Cytokines                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| References                                                  | Oppmann B., et al (2000) Immunity 13:715-725 (2000); Presky et al. (1996) Proc. Natl. Acad. Sci. u.S.A. 93 (24): 14002-7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 24497438                                       |
| NCBI GeneID                      | 3593                                           |
| NCBI Accession #                 | NP_002178                                      |
| NCBI GenBank Nucleotide #        | NM_002187.2                                    |
| UniProt Accession #              | P29460                                         |
| Molecular Weight                 | 35.8kDa (315aa)                                |
| NCBI Official Full Name          | interleukin-12 subunit beta                    |
| NCBI Official Synonym Full Names | interleukin 12B                                |
| NCBI Official Symbol             | IL12B                                          |
| NCBI Official Synonym Symbols    | CLMF; NKSF; CLMF2; IMD28; IMD29; NKSF2; IL-12B |
| NCBI Protein Information         | interleukin-12 subunit beta                    |
| UniProt Protein Name             | Interleukin-12 subunit beta                    |
| UniProt Gene Name                | IL12B                                          |
| UniProt Synonym Gene Names       | NKSF2; IL-12B; CLMF p40; NKSF2                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/il12b-recombinant-protein-baculovirus-sds-page/48721>