

## PRODUCT INFORMATION

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| <b>Target</b>                           | IL-12  |
| <b>Synonyms</b>                         | Interleukin-12 subunit alpha;IL-12A;Cytotoxic lymphocyte maturation factor 35 kDa subunit;CLMF p35;IL-12 subunit p35;NK cell;IL12A ;NKSF1 stimulatory factor chain 1   |
| <b>Description</b>                      | Recombinant Human Interleukin-12 is produced by our Mammalian expression system and the target gene encoding Arg23-Ser219andIle23-Ser328 is expressed.   |
| <b>Delivery</b>                         | In Stock   |
| <b>Uniprot ID</b>                       | P29459;P29460  |
| <b>Expression Host</b>                  | HEK293   |
| <b>Tag</b>                              |  |
| <b>Molecular Characterization</b>       | Not available  |
| <b>Molecular Weight</b>                 | 22.5and34.7 KDa  |
| <b>Purity</b>                           | Greater than 95% as determined by reducing SDS-PAGE.   |
| <b>Formulation &amp; Reconstitution</b> | Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.  |
| <b>Storage &amp; Shipping</b>           | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.  |
| <b>Background</b>                       | IL-12 is a heterodimeric pleiotropic cytokine made up of a 40 kDa (p40) subunit and a 35 kDa (p35) subunit.Human and mouse IL-12 share 70% and 60% amino acid sequence identity in their p40 and p35 subunits, respectively. IL-12 is involved in the differentiation of naive T cells into Th1 cells. It is known as a T cell-stimulating factor, which can stimulate the growth and function of T cells. It stimulates the production of interferon-gamma (IFN-γ) and tumor necrosis factor-alpha (TNF-α) from T cells and natural killer (NK) cells, and reduces IL-4 mediated suppression of IFN-γ. T cells that produce IL-12 have a coreceptor, CD30, which is associated with IL-12 activity.IL-12 plays an important role in the activities of natural killer cells and T lymphocytes. IL-12 mediates enhancement of the cytotoxic activity of NK cells and CD8 cytotoxic T lymphocytes. |
| <b>Usage</b>                            | Research use only  |



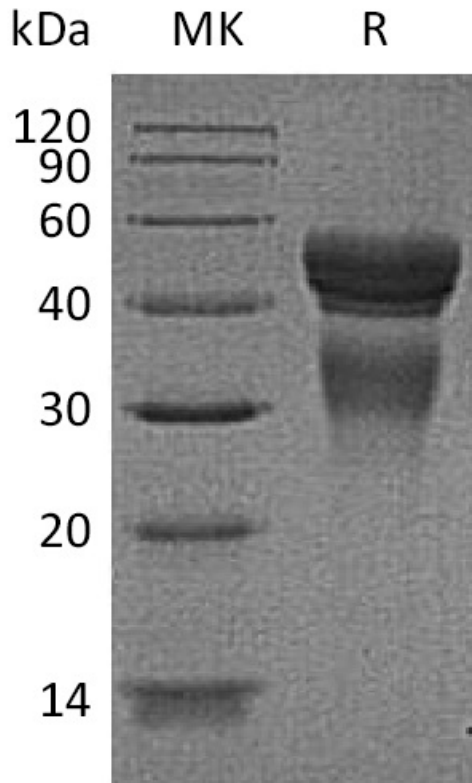


Figure 1. Greater than 95% as determined by reducing SDS-PAGE.

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