

**Recombinant Human Interleukin-12 Protein**

**Cat.NO.: TP05780**

3th Edition

**Synonyms:**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;

**Description:**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- $\gamma$ ) and tumor necrosis factor-alpha (TNF- $\alpha$ ) from T cells and natural killer (NK) cells, and reduces IL-4 mediated suppression of IFN- $\gamma$ . 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.

**Form:**PBS

**Molecular Weight:**22.5&34.7 kDa

**Sequences:**Arg23-Ser219&Ile23-Ser328

**Purity:**> 95% by HPLC

**Concentration:**

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.