



# Recombinant Mouse IL-12p80

20191029DS



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>M10-048S</b>
<b>Size:</b>	2 µg
<b>Lot. No.:</b>	According to product label

## Scientific Background

<b>Gene-ID (NCBI):</b>	16160
<b>Synonyms:</b>	Interleukin-12, NKSF, CTL Maturation Factor (TCMF), Cytotoxic Lymphocyte Maturation Factor (CLMF), TSF, p40:Interleukin-12 subunit beta, IL-12 subunit p40, IL-12B, Cytotoxic Lymphocyte Maturation Factor 40 kDa subunit (CLMF p40), NK cell Stimulating Factor

IL-12 is a potent regulator of cell-mediated immune responses and it induces IFN- $\gamma$  production by NK and T cells. It is produced by activated monocytes/macrophage cells, B lymphocytes and connective tissue-type mast cells. Among its biological activities, IL-12 promotes the growth and activity of activated NK, CD4+ and CD8+ cells, and induces the development of IFN- $\gamma$ -producing Th1 cells. Recombinant Murine IL-12 p80 is an 80.0 kDa, disulfide linked homodimer of two p40 chains of IL-12 that consists of 626 amino acid residues and less than 5% of the IL-12 p40 monomer

### Sequence

P40 SUBUNIT:

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MWELEKDVYV VEVDWTPDAP GETVNLTCDT PEEDDITWTS
DQRHGVIGSG KTLTITVKEF LDAGQYTCHK GGETLSHSHL
LLHKKENGIW STEILKNFKN KTFLKCEAPN YSGRFTCSWL
VQRNMDLRFN IKSSSSSPDS RAVTCGMASL SAEKVTLDQR
DYEKYSVSCQ EDVTCPTAEE TLPIELALEA RQQNKYENYS
TSFFIRDIK PDPPKLNQMK PLKNSQVEVS WEYPDSWSTP
HSYFSLKFFV RIQRKKEKMK ETEEGCNQKG AFLVEKTSTE
VQCKGGNVCV QAQDRYNS SCSKWACVPCR VRS
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### Database References

<b>Protein RefSeq:</b>	NP_001290173.1
<b>Uniprot ID:</b>	P43432
<b>mRNA RefSeq:</b>	NM_001303244.1

## Product Specifications

<b>Expressed in</b>	HEK 293 cells
<b>Purity</b>	≥ 95% by SDS-PAGE gel and HPLC analyses.
<b>Endotoxin level</b>	< 0.1 ng/µg of protein (<1EU/µg)
<b>Formulation</b>	lyophilized
<b>Length (aa):</b>	313 monomer
<b>MW:</b>	80 kDa



**AVOID REPEATED FREEZE AND THAW CYCLES!**

**Biological Activity:** Determined by its ability to inhibit the proliferative effect of 2 ng/ml mIL-12 p70 in T cell-enriched PBMCs.