


## Mouse IL-12 p40 Protein, His tag (Animal-Free)

Cat #: PRP1173

Size: 5 µg/20 µg/100 µg/1 mg

### Product Information

	<b>Product Name:</b> Mouse IL-12 p40 Protein, His tag (Animal-Free)		
<b>REF</b>	<b>Catalog Number:</b> PRP1173	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> > 98 % as determined by SDS-PAGE		
	<b>Storage:</b> Store at -20°C		<b>Preparation method:</b> E.coli
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** Interleukin-12 (IL-12), also known as NKSF, TCMF, CLMF and TSF, is a heterodimeric cytokine composed of p35 and p40 subunits. It is produced by monocytes, macrophages, B cells and dendritic cells in response to bacterial lipopolysaccharides and intracellular pathogens. IL-12 signals through the IL-12 receptor complex, which is comprised of IL-12 Rβ1 and IL-12 Rβ2. IL-12 induces the proliferation and activation of hematopoietic stem cells, natural killer cells and T-cells. It is indispensable during the development of Th1 cells, leading to the production of IFN-gamma and IL-2.

**Sequence:** Amino acid sequence derived from Mouse IL-12 p40 (Met 23-Ser 335) (P43432) was expressed with 6×His tag at the C-terminus.

**Protein length:** The recombinant Mouse IL-12 p40 consists of 313 amino acids and predicts a molecular mass of 36.6 kDa.

**Biological Activity:** Measure by its ability to induce proliferation in T-cell enriched PBMC. The ED<sub>50</sub> for this effect is <0.3 ng/mL.

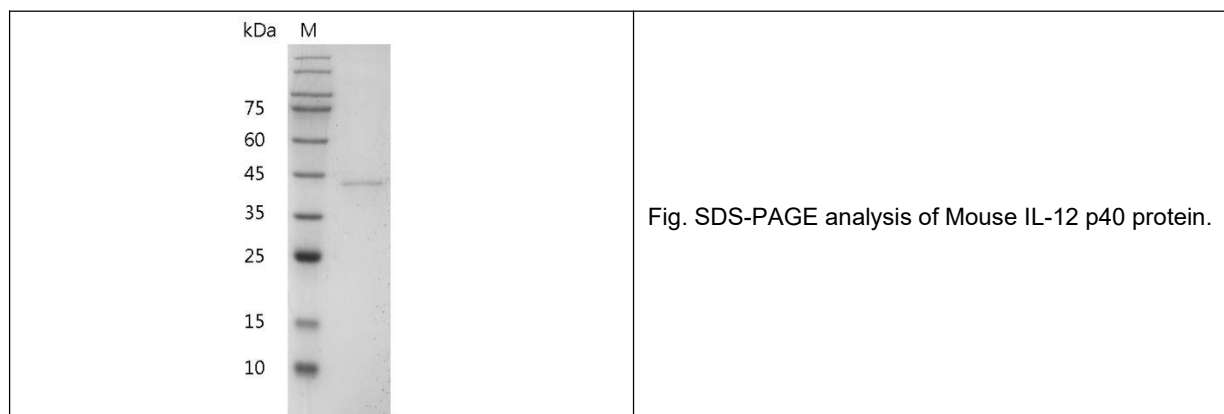
**Endotoxin:** <0.1 EU per 1 µg of the protein by the LAL method.

**Formulation:** Lyophilized from PBS, pH 7.4.

**Storage Instructions:** Lyophilized protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (5% HSA, 10% FBS or 0.1% BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant protein to a concentration of 0.1-1 mg/mL using the buffer we provided, and keep at room temperature for at least 20 min to fully

dissolve. Please avoid vortex vigorously.



**Note:** The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.