


## Mouse IL-4 protein (Animal-Free)

Cat #: PRP2117

Size: 5 µg/20 µg/100 µg

### Product Information

	<b>Product Name:</b> Mouse IL-4 protein (Animal-Free)		
<b>REF</b>	<b>Catalog Number:</b> PRP2117	<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> HEK293 Cells
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** Interleukin-4 is a pleiotropic cytokine produced primarily by activated T lymphocytes, basophils and mast cells. It is a glycosylated polypeptide that contains three intrachain disulfide bridges and adopts a bundled four alpha-helix structure. It plays an important role in the treatment and research of tumor and autoimmune diseases, in addition to its role in mediating inflammatory allergic reaction. Mouse IL-4 is synthesized with a 24 aa signal sequence. Multiple immune response-modulating functions are performed by IL-4 on a variety of cell types and it has an important role in the regulator of isotype switching, induction of IgE production in B lymphocytes and differentiation of precursor T helper cells. IL-4 binds to both membrane-bound and secreted soluble IL-4 receptors.

**Sequence:** Amino acid sequence derived from mouse IL-4 (P07750) (Met 1-Ser140) was expressed with a 6His tag at the C-terminus.

**Protein length:** The recombinant mouse IL-4 consists of 118 amino acids and predicts a molecular mass of 13.3 kD. The apparent molecular mass of the mouse IL-4 is approximately 15-19 kDa in SDS-PAGE under reducing conditions.

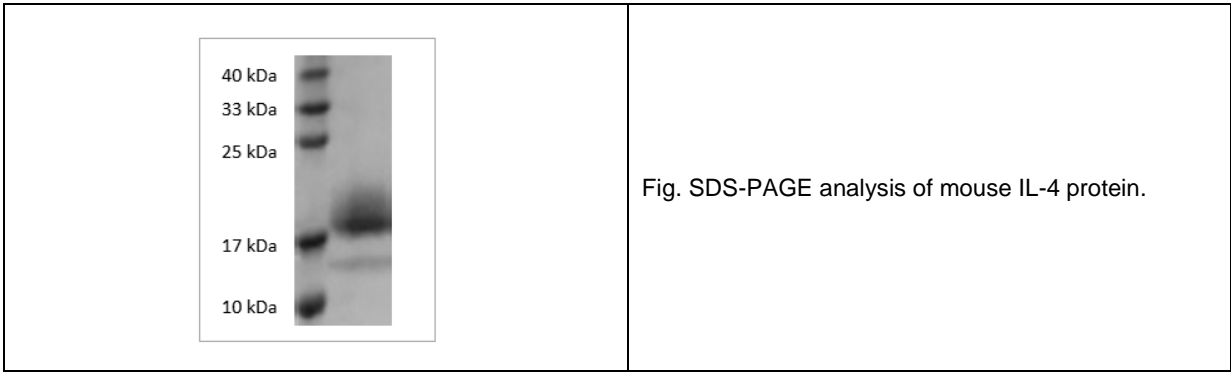
**Endotoxin:** < 0.1 EU per µg of the protein as determined by the LAL method.

**Formulation:** 0.22 µm filtered protein solution is in PBS.

**Storage Instructions:** Lyophilized mouse IL-4 protein product should be stored desiccated below -20°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized mouse IL-4 protein

using the buffer we provided not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.



**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.