

Product Datasheet

Mouse IL4 protein (orb594835)

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|-----------------------------|--|
| Catalog Number | orb594835 |
| Category | Proteins |
| Description | This Mouse IL4 protein spans the amino acid sequence from region 23-140aa. Purity: Greater than 95% as determined by SDS-PAGE. |
| Tag | Tag-Free |
| Form/Appearance | Lyophilized powder |
| Buffer/Preservatives | Lyophilized from a 0.2 µm filtered solution of 20mM PB, 300mM NaCl, 5% Trehalose, pH 6.5. |
| Purity | Greater than 95% as determined by SDS-PAGE. |
| Protein Sequence | HGCDKNHLREIIGILNEVTGEGTPCTEMDVPNVLATKNTTESELVCRASKVLRIFYLKHGKT PCLKKNSSVLMELQRLFRAFRCCLDSSISCTMNESKSTSLKDFLESLSIMQMDYS |
| Protein Length | Partial |
| UniProt ID | P07750 |
| MW | 13.4 kDa |
| Application notes | Partial |
| Endotoxins | Less than 1.0 EU/µg as determined by LAL method. |
| Source | E.coli |
| Biological Origin | Mus musculus (Mouse) |
| Biological Activity | The ED50 as determined in a cell proliferation assay using M-NFS-60 mouse lymphoblast cells is 0.01 ng/ml. |

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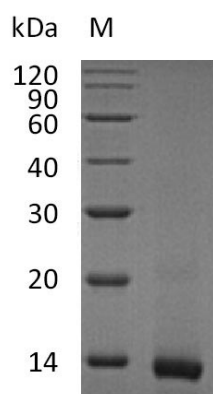
Expression Region 23-140aa

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.

Background Mouse Interleukin-4(IL-4) is a monomeric, Th2 cytokine that shows pleiotropic effects during immune responses. It is a glycosylated polypeptide that contains three intrachain disulfide bridges and adopts a bundled four α helix structure. IL4 exerts its effects through two receptor complexes, Participates in at least several B-cell activation processes as well as of other cell types. IL4 is primarily expressed by Th2biased CD4+T cells, mast cells, basophils, and eosinophils. It promotes cell proliferation, survival, and immunoglobulin class switch to IgG1 and IgE in mouse B cells, acquisition of the Th2 phenotype by naïve CD4+T cells, priming and chemotaxis of mast cells, eosinophils, and basophils, and the proliferation and activation of epithelial cells. IL4 plays a dominant role in the development of allergic inflammation and asthma. It also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and mon

Note For research use only

Expiration Date 6 months from date of receipt.



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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