

Product datasheet

Recombinant mouse IL-6 protein ab214984

Description

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| Product name | Recombinant mouse IL-6 protein | |
| Biological activity | Shows the biological function of the IL6 moiety and exerts a prolonged circulating half-life caused by the modified Fc domain. | |
| Purity | >= 98 % SDS-PAGE. | |
| Endotoxin level | < 0.060 Eu/µg | |
| Expression system | CHO cells | |
| Accession | P08505 | |
| Protein length | Full length protein | |
| Animal free | No | |
| Nature | Recombinant | |
| Species | Mouse | |
| Sequence | MKFLSARDFHPVAFLGLMLVTTTAFPTSQVRRGDFTE DTPNRPVYTTSQ VGGLITHVLWEEMRKELCNGNSDCMNNDDALAENN LKLPEIQRNDGCV QTGYNQEICLLKISSGLLEYHSYLEYMKNNLKDNKKDKA RVLQRDTETLI HIFNQEVDLHKIVLPTPISNALLTDKLESQKEWLRTKTI QFILKSLEEF LKVTLRSTRQT | |
| Amino acids | 1 to 211 | |
| Additional sequence information | Full length protein fused to the N-terminus of the Fc region of a mutant mouse IgG2a. | |

Specifications

Our [Abpromise guarantee](#) covers the use of **ab214984** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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| Applications | Functional Studies SDS-PAGE |
| Form | Lyophilised |
| Additional notes | Non-lytic: Acts as a long lasting fusion protein which only binds to the receptor. Mutations to the complement (C1q) and FcγR I binding sites of the IgGs Fc fragment render the fusion proteins |

incapable of antibody directed cytotoxicity (ADCC) and complement directed cytotoxicity (CDC).

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term. Avoid freeze / thaw cycle.

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution

Reconstitute at 100 µg/mL in sterile PBS. Working aliquots are stable for up to 3 months when stored at -20°C.

General Info

Function

Cytokine with a wide variety of biological functions. It is a potent inducer of the acute phase response. Plays an essential role in the final differentiation of B-cells into Ig-secreting cells. Involved in lymphocyte and monocyte differentiation. It induces myeloma and plasmacytoma growth and induces nerve cells differentiation. Acts on B-cells, T-cells, hepatocytes, hematopoietic progenitor cells and cells of the CNS. Also acts as a myokine. It is discharged into the bloodstream after muscle contraction and acts to increase the breakdown of fats and to improve insulin resistance.

Involvement in disease

Genetic variations in IL6 are associated with susceptibility to rheumatoid arthritis systemic juvenile (RASJ) [MIM:604302]. An inflammatory articular disorder with systemic-onset beginning before the age of 16. It represents a subgroup of juvenile arthritis associated with severe extraarticular features and occasionally fatal complications. During active phases of the disorder, patients display a typical daily spiking fever, an evanescent macular rash, lymphadenopathy, hepatosplenomegaly, serositis, myalgia and arthritis.

Note=A IL6 promoter polymorphism is associated with a lifetime risk of development of Kaposi sarcoma in HIV-infected men.

Sequence similarities

Belongs to the IL-6 superfamily.

Post-translational modifications

N- and O-glycosylated.

Cellular localization

Secreted.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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