

Product datasheet

Recombinant rat IL-6 protein (Animal Free) ab179486

Description

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|--|---|--|
| Product name | Recombinant rat IL-6 protein (Animal Free) | |
| Biological activity | The activity is determined by a dose-dependent stimulation of mouse 7TD1 cells and is typically less than 0.01 ng/mL. | |
| Purity | > 95 % SDS-PAGE. under reducing and non-reducing | |
| Endotoxin level | <=1.000 Eu/µg | |
| Expression system | Escherichia coli | |
| Accession | P20607 | |
| Protein length | Full length protein | |
| Animal free | Yes | |
| Nature | Recombinant | |
| Species | Rat | |
| Sequence | MFPTSQVRRG DFTEDTTHNR PVYTTSQVGG LITYVLREIF EMRKELCNGN SDCMNSDDAL SENNLKLPEI QRNDGCFQTG YNQEICLLKI CSGLLEFRFY LEFVKNNLQD NKKDKARVIQ SNTETLVHIF KQEIKDSYKI VLPTPTSNAL LMEKLESQKE WLRTKTIQLI LKALEEFLKV TMRSTRQT | |
| Predicted molecular weight | 22 kDa | |
| Amino acids | 25 to 211 | |
| Additional sequence information | Mature form. | |

Specifications

Our [Abpromise guarantee](#) covers the use of **ab179486** in the following tested applications.

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

| | |
|---------------------|--------------------|
| Applications | Functional Studies |
| | SDS-PAGE |
| Form | Lyophilized |

Preparation and Storage

Stability and Storage

Shipped at 4°C. Upon delivery aliquot. Store at -20°C long term. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA).

Constituents: 0.2% Trifluoroacetic acid, 66% Mannitol

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

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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