

Product datasheet

Recombinant human IL-6 protein (Active) ab119444

2 References

Description

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| Product name | Recombinant human IL-6 protein (Active) | |
| Biological activity | >1 x 10 ⁷ units/mg. ab119444 ED50 is 0.1ng/ml when assayed by proliferation of murine 7TD1 cells. | |
| Purity | > 98 % SDS-PAGE. >98% HPLC analyses. | |
| Endotoxin level | < 1.000 Eu/μg | |
| Expression system | Escherichia coli | |
| Accession | <u>P05231</u> | |
| Protein length | Full length protein | |
| Animal free | No | |
| Nature | Recombinant | |
| Species | Human | |
| Sequence | PVPPGEDSKD VAAPHRQPLT SSERIDKQIR YLDGISALR KETCNKSNMC ESSKEALAE NLNLPKMAEK DGCFQSGFNE ETCLVKIITG LLEFEVYLEY LQNRFESSEE QARAVQMSTK VLIQFLQKKA KNLDAITTPD PTTNASLLTK LQAQNQWLQD MTTHLILRSF KEFLQSSLRA LRQM | |
| Predicted molecular weight | 21 kDa | |
| Amino acids | 29 to 212 | |

Specifications

Our **Abpromise guarantee** covers the use of **ab119444** 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 | Western blot |
| | ELISA |
| | Functional Studies |
| | SDS-PAGE |
| | HPLC |
| Form | Lyophilized |

Preparation and Storage

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|------------------------------|--|
| Stability and Storage | Shipped at 4°C. After reconstitution store at -20°C. Avoid freeze / thaw cycles. This product is an active protein and may elicit a biological response in vivo, handle with caution. |
| Reconstitution | 5 ug size: Reconstitute with 50ul distilled water. 20 ug size: Reconstitute with 200ul distilled water. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. We recommend that the vial is gently mixed after reconstitution. DO NOT VORTEX. For long term storage the addition of 0.1% bovine serum albumin (BSA) is recommended. N.B. For functional studies, do not add sodium azide. |

General Info

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| 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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