

Product datasheet

Recombinant mouse IL-6 protein ab198572

[2 References](#) [2 Images](#)

Description

Product name	Recombinant mouse IL-6 protein
Biological activity	The activity is determined by dose-dependent induction of 7TD1 cell proliferation and is typically less than 0.02 ng/mL.
Purity	> 95 % SDS-PAGE. Protein Content and Purity (typically = 95%) determined by: HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.
Endotoxin level	<=1.000 Eu/µg
Expression system	Escherichia coli
Accession	<u>P08505</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Mouse
Sequence	MFPTSQVRRG DFTEDTTPNR PVYTTSQVGG LITHVLWEIV EMRKELCNGN SDCMNNDDAL AENNLKLPEIQRNDGCYQTG YNQEICLLKI SSSLLEYHSY LEYMKNNLKD NKKDKARVLQ RDTETLIHIF NQEVKDLHKI VLPTPISNAL LDKLESQKE WLRTKTIQFI LKSLEEFLKV TLRSTRQT
Predicted molecular weight	22 kDa
Amino acids	25 to 211
Additional sequence information	This product is for the mature full length protein. The signal peptide is not included.

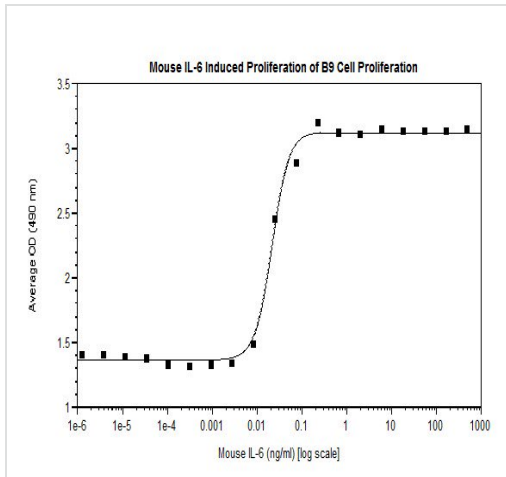
Specifications

Our **Abpromise guarantee** covers the use of **ab198572** in the following tested applications.

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

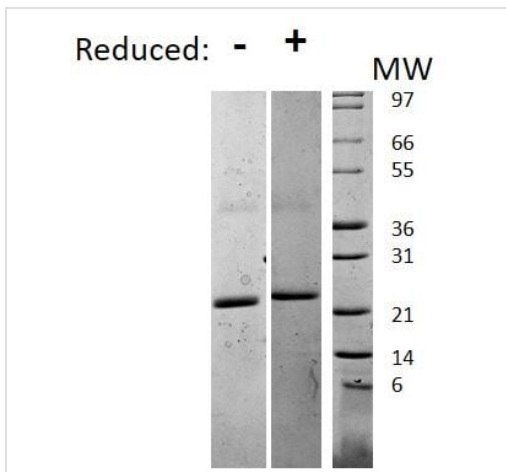
Applications	HPLC
	SDS-PAGE
	Functional Studies

Form	Lyophilized
Preparation and Storage	
Stability and Storage	<p>Shipped at 4°C. Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA).</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
Reconstitution	<p>Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized mouse IL-6 in 10 mM HCl to 0.1-1.0 mg/mL.</p>
General Info	
Function	<p>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.</p>
Involvement in disease	<p>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.</p> <p>Note=A IL6 promoter polymorphism is associated with a lifetime risk of development of Kaposi sarcoma in HIV-infected men.</p>
Sequence similarities	Belongs to the IL-6 superfamily.
Post-translational modifications	N- and O-glycosylated.
Cellular localization	Secreted.
Images	



Functional analysis of ab198572

Functional Studies - Recombinant mouse IL-6 protein (ab198572)



SDS PAGE analysis of ab198572 under non-reducing (-) and reducing (+) conditions. Stained with Coomassie Blue.

SDS-PAGE - Recombinant mouse IL-6 protein (ab198572)

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