

Product datasheet

Recombinant human IL-6 protein (Active) ab259381

4 Images

Description

Product name	Recombinant human IL-6 protein (Active)
Biological activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by the dose-dependant Proliferation of TF-1 cells is 0.8067 ng/mL corresponding to a specific activity of 1.24 x 10 ⁶ IU/mg.
Purity	>= 95 % SDS-PAGE. Purity by HPLC >=95%.
Endotoxin level	< 0.005 Eu/μg
Expression system	HEK 293 cells
Accession	P05231
Protein length	Full length protein
Animal free	Yes
Carrier free	Yes
Nature	Recombinant
Species	Human
Predicted molecular weight	21 kDa
Molecular weight information	M+1 Da, pass (+203 Da: Hex, +203: HexNAc, +291:NeuAc). APVPPGEDSKDVAAPHRQPLTSSERIDKQIRYLDGISALRKETCNKSNMCESSKEALAENLN LPKMAEKDGCQSGFNEETCLVKIITGLLEFEVYLEYLQNRFSSEEQARAVQMSTKVLIQFLQ KKAKNLDAITTPDPTTNASLLTKLQAQNQWLQDMTTHLILRSFKEFLQSSLRALRQM
Amino acids	28 to 212
Additional sequence information	N-terminal glycine. Mature chain.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab259381** in the following tested applications.

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

Applications	Cell Culture
	Functional Studies
	Mass Spectrometry
	SDS-PAGE

HPLC

Form	Lyophilized
Additional notes	This protein is filter sterilized prior to aliquoting and lyophilization. All aliquoting and lyophilization steps are performed in a sterile environment

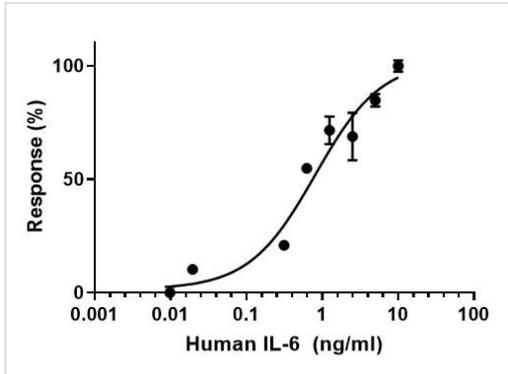
Preparation and Storage

Stability and Storage	Shipped at Room Temperature. Store at Room Temperature. Information available upon request. This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Reconstitute with phosphate buffered saline. Store lyophilized form at room temperature. Reconstitute, aliquot and store at -80°C for 12 months or +4°C for 1 week. Avoid repeated freeze-thaw.

General Info

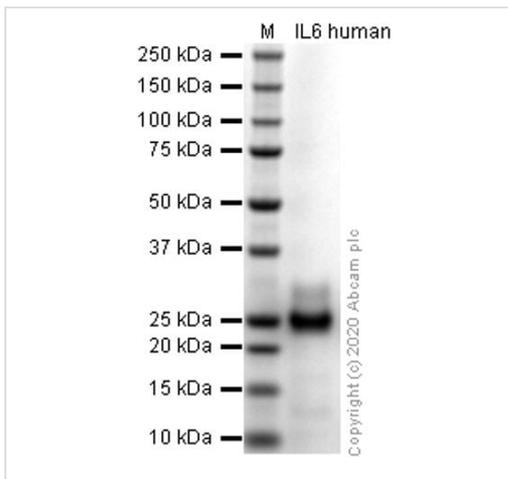
Function	Cytokine with a wide variety of biological functions. It is a potent inducer of the acute phase response. Plays an essential role in the final differentiation of B-cells into Ig-secreting cells Involved in lymphocyte and monocyte differentiation. It induces myeloma and plasmacytoma growth and 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.

Images



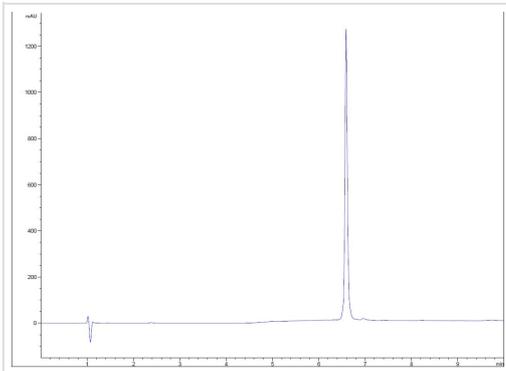
Fully biologically active when compared to standard. The ED₅₀ as determined by the dose-dependant Proliferation of TF-1 cells is 0.8067 ng/mL corresponding to a specific activity of 1.24 x 10⁶ IU/mg.

Functional Studies - Recombinant human IL-6 protein (Active) (ab259381)



SDS-PAGE analysis of ab259381.

SDS-PAGE - Recombinant human IL-6 protein (Active) (ab259381)



HPLC - Recombinant human IL-6 protein (Active)
(ab259381)

Purity 99%.

The spectrum was recorded using a 1260 Infinity II HPLC system with DAD and a MabPac RP column (3.0x100 mm, 4 μm). 5 μL of purified protein was injected and the gradient run from 80 % water:TFA (99.9:0.1 v/v) and 20 % acetonitrile:water:TFA (90:9.9:0.1 v/v/v) to 20 % water:TFA (99.9:0.1 v/v) and 80 % acetonitrile:water:TFA (90:9.9:0.1 v/v/v) within 3 minutes followed by an isocratic step for another 3 min. Flow rate was 0.5 mL/min and the column compartment temperature was 50 °C.

