

Recombinant human IL-3 protein (Active) ab259404

4 Images

Description

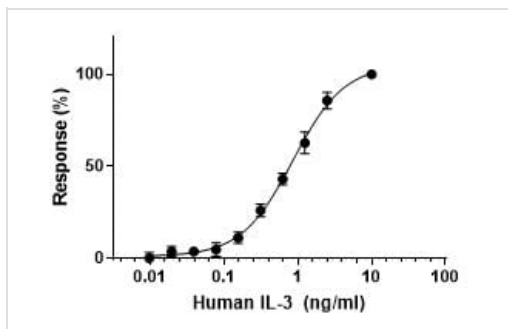
Product name	Recombinant human IL-3 protein (Active)		
Biological activity	Fully active compared to a standard. The ED <sub>50</sub> as determined by the dose-dependant proliferation of TF-1 cells is 0.8577 ng/mL corresponding to a Specific Activity of 1.17 x 10 <sup>6</sup> IU/mg.		
Purity	>= 95 % SDS-PAGE. Purity by HPLC >=95%.		
Endotoxin level	< 0.005 Eu/µg		
Expression system	HEK 293 cells		
Accession	<b><u>P08700</u></b>		
Protein length	Full length protein		
Animal free	Yes		
Carrier free	Yes		
Nature	Recombinant		
Species	Human		
Sequence	APMTQTTSLKTSWVNCSNMIDEIITHLKQPPLPLLDFFNNLN GEDQDILME NNLRRPNLEAFNRAVKSLQNASAIESILKNLLPCLPLATAA PTRHPIHIK DGDWNEFRRKLTFLYKTLNAQAQQTTLSLAIF		
Predicted molecular weight	15 kDa		
Molecular weight information	M + 2.61 Da (Calc mass 15138.39 Da). APMTQTTSLKTSWVNCSNMIDEIITHLKQPPLPLLDFFNNLNGEDQDILMENNLRPNLEAFNRA VKSLQNASAIESILKNLLPCLPLATAAAPTRHPIHIKDGDWNEFRRKLTFLYKTLNAQAQQTTLSL AIF		
Amino acids	20 to 152		
Additional sequence information	N-terminal glycine. Full-length mature chain lacking the signal peptide.		

Specifications

Our **Abpromise guarantee** covers the use of **ab259404** in the following tested applications.

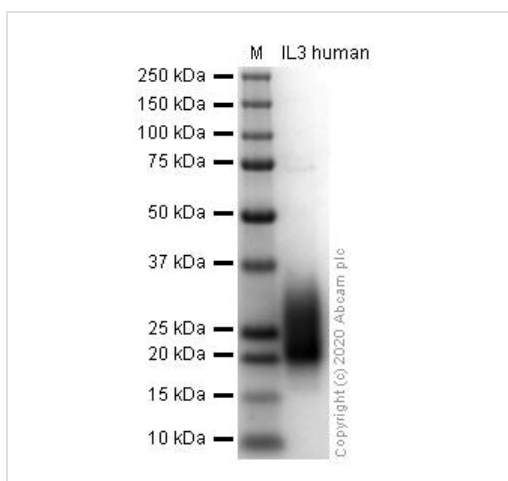
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE
	Functional Studies
	HPLC
	Mass Spectrometry
	Cell Culture
<b>Form</b>	Lyophilized
<b>Additional notes</b>	This protein is filter sterilised prior to aliquoting and lyophilisation. All aliquoting and lyophilisation steps are performed in a sterile environment
<b>Preparation and Storage</b>	
<b>Stability and Storage</b>	Shipped at Room Temperature. Store at Room Temperature.
	pH: 6.00
	Constituents: 0.727% Dibasic monohydrogen potassium phosphate, 0.248% Monobasic dihydrogen potassium phosphate, 10.26% Trehalose
	Buffer lyophilized from.
	This product is an active protein and may elicit a biological response in vivo, handle with caution.
<b>Reconstitution</b>	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. Lyophilized contents may appear as either a translucent film or a white powder. This variance does not affect the quality of the product.
<b>General Info</b>	
<b>Function</b>	Granulocyte/macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages.
	This CSF induces granulocytes, macrophages, mast cells, stem cells, erythroid cells, eosinophils and megakaryocytes.
<b>Tissue specificity</b>	Activated T-cells, mast cells, natural killer cells.
<b>Sequence similarities</b>	Belongs to the IL-3 family.
<b>Cellular localization</b>	Secreted.
<b>Images</b>	



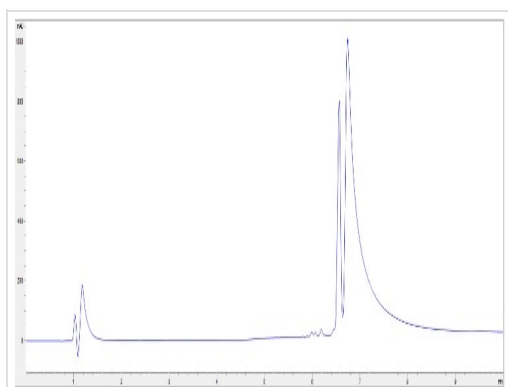
Functional Studies - Recombinant human IL-3 protein (ab259404)

Fully active compared to a standard. The ED<sub>50</sub> as determined by the dose-dependant proliferation of TF-1 cells is 0.8577 ng/mL corresponding to a Specific Activity of  $1.17 \times 10^6$  IU/mg.



SDS-PAGE - Recombinant human IL-3 protein (ab259404)

SDS-PAGE analysis of ab259404.

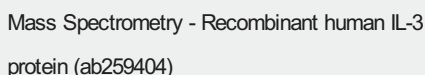


HPLC - Recombinant human IL-3 protein (ab259404)

Purity: 95%.

Sample was deglycosylated prior to HPLC run; the deglycosylation enzymes account for the second peak.

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.



The spectrum was recorded with a 6545XT AdvanceBio LC/Q-TOF (Agilent Technologies) and a MabPac RP column (42.1x50 mm, 4  $\mu$ m, Thermo Scientific). 5  $\mu$ L of purified protein was injected and the gradient run from 85 % water:FA (99.9:0.1 v/v) and 15 % acetonitrile:FA (90:9.9:0.1 v/v/v) to 55 % water:FA (99.9:0.1 v/v) and 45 % acetonitrile:FA (90:9.9:0.1 v/v/v) within 3 minutes followed by an isocratic step for another 2.5 min. Flow rate was 0.4 mL/min and the column compartment temperature was 60 °C. Data was analysed and deconvoluted using the Bioconfirm software (Agilent Technologies).

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