

Product datasheet

Recombinant mouse IL-2 protein (Active) ab259380

[4 Images](#)

Description

Product name	Recombinant mouse IL-2 protein (Active)
Biological activity	Fully biologically active when compared to standard. Determined by the dose dependant proliferation of CTLL-2 cells. ED ₅₀ is ≤ 0.5ng/mL, corresponding to a specific activity of 2.00 x 10 ⁶ units/mg.
Purity	≥ 95 % SDS-PAGE. Purity by HPLC ≥95%.
Endotoxin level	≤0.005 Eu/μg
Expression system	HEK 293 cells
Accession	P04351
Protein length	Full length protein
Animal free	Yes
Carrier free	Yes
Nature	Recombinant
Species	Mouse
Predicted molecular weight	17 kDa
Molecular weight information	M+/-0 Da, pass (+568/569 Da: Hex(1)HexNAc(2)) (Calc MW 17289.01) APTSSSTSSSTA EAQQQQQQQQQQHLEQLLMDLQELLSRMENYRNLKLPRLTFK FYLPK QATELKDLQCLEDELGPLRHVLDLTQSKSFQLEDAENFISNIRVTVVKLGSDNTFECQFDDE SATVVDFLRRWIAFCQSIISTSPQ
Amino acids	21 to 169
Additional sequence information	N-terminal glycine Full-length mature chain lacking the signal peptide.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab259380** 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
	SDS-PAGE
	HPLC
	Functional Studies

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

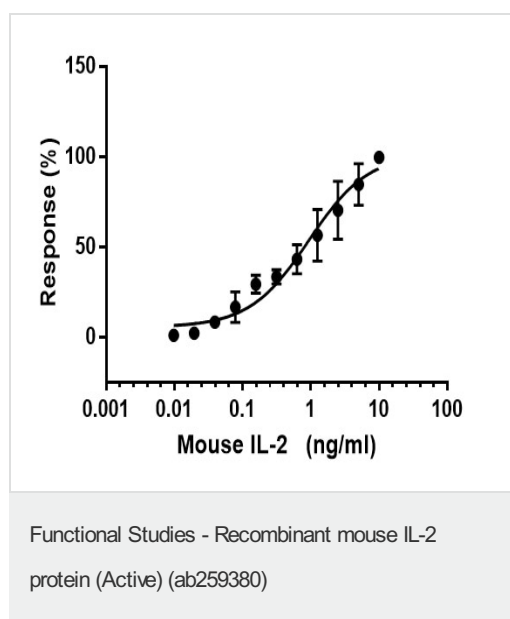
Preparation and Storage

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. Lyophilized contents may appear as either a translucent film or a white powder. This variance does not affect the quality of the product.

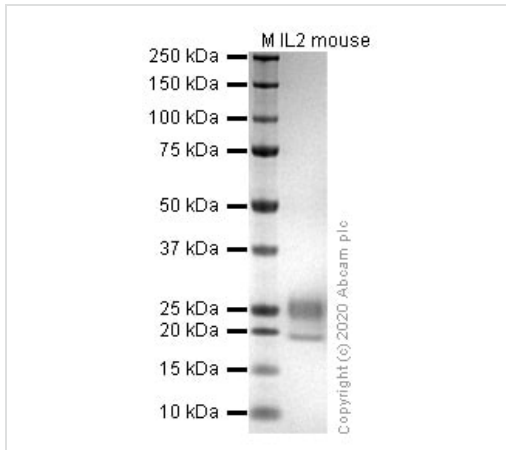
General Info

Function	Produced by T-cells in response to antigenic or mitogenic stimulation, this protein is required for T-cell proliferation and other activities crucial to regulation of the immune response. Can stimulate B-cells, monocytes, lymphokine-activated killer cells, natural killer cells, and glioma cells.
Involvement in disease	Note=A chromosomal aberration involving IL2 is found in a form of T-cell acute lymphoblastic leukemia (T-ALL). Translocation t(4;16)(q26;p13) with involves TNFRSF17.
Sequence similarities	Belongs to the IL-2 family.
Cellular localization	Secreted.

Images

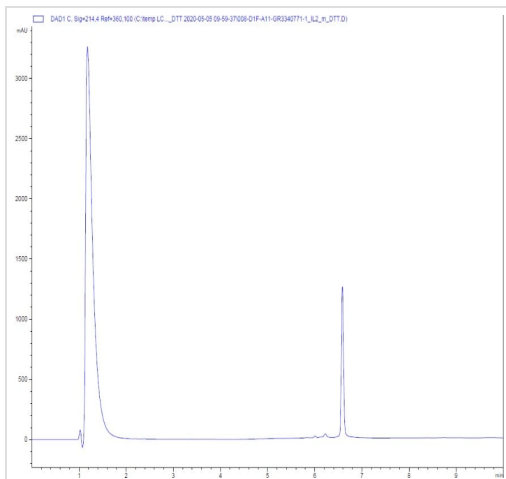


Fully biologically active when compared to standard. Determined by the dose dependant proliferation of CTLL-2 cells. ED₅₀ is ≤ 0.5ng/mL, corresponding to a specific activity of 2.00 x 10⁶ units/mg.



SDS-PAGE - Recombinant mouse IL-2 protein
(Active) (ab259380)

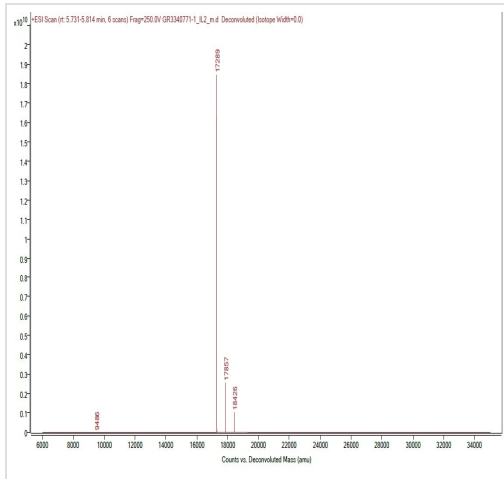
SDS-PAGE analysis of ab259380.



HPLC - Recombinant mouse IL-2 protein (Active)
(ab259380)

Purity $\geq 95\%$

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 $^{\circ}\text{C}$.



Mass Spectrometry - Recombinant mouse IL-2 protein (Active) (ab259380)

M+/-0 Da, pass (+568/569 Da: Hex(1)HexNAc(2)) (Calc MW 17289.01)

The spectrum was recorded with a 6545XT AdvanceBio LC/Q-TOF (Agilent Technologies) and a MabPac RP column (42.1x50 mm, 4 µm, Thermo Scientific). 5 µL 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).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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