

Recombinant Rat IL-1 alpha Protein (Active) ab290099

[4 Images](#)

Description

Product name	Recombinant Rat IL-1 alpha Protein (Active)
Biological activity	Fully biologically active determined by the dose dependent proliferation of D10S cells. The ED50 ≤ 5.07 pg/ml, corresponding to a specific activity of 1.97×10^8 units/mg.
Purity	≥ 95 % HPLC. SDS-PAGE $\geq 95\%$
Endotoxin level	≤ 0.005 Eu/ μ g
Expression system	HEK 293 cells
Accession	<u>P16598</u>
Protein length	Full length protein
Animal free	Yes
Carrier free	Yes
Nature	Recombinant
Species	Rat
Sequence	SAPHSFQNNLRYSKLIRIVKQEFIMNDSLNNQNIYVDMDRHLK AASLNDLQ LEVKFDYAYSSGGDDSKYPVTLKVSNTQLFVSAQGEDI PVLLKEIPETP KLITGSETDLIFFWEKINSKNYFTSAAFPPELLIATKEQSQVHL ARGLPSMIDFQIS
Predicted molecular weight	18 kDa
Actual molecular weight	18 kDa
Molecular weight information	Predicted MW is 17850.37 Da (+/- 10 Da by ESI-TOF). Observed MW is 17851.27 Da.
Amino acids	115 to 270
Additional sequence information	N-terminal glycine; Mature form

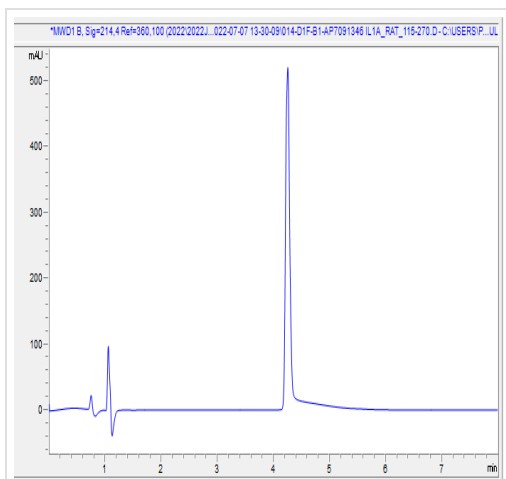
Specifications

Our **Abpromise guarantee** covers the use of **ab290099** in the following tested applications.

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

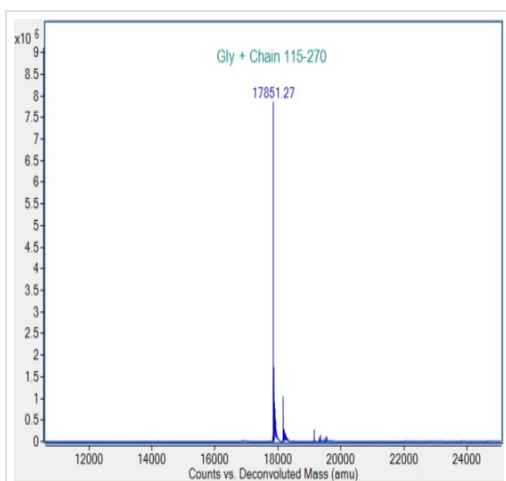
Applications SDS-PAGE

	Mass Spectrometry
	HPLC
Form	Lyophilized
Preparation and Storage	
Stability and Storage	<p>Shipped at Room Temperature. Store at Room Temperature.</p> <p>pH: 7.4</p> <p>Constituents: 0.727% Dibasic monohydrogen potassium phosphate, 0.248% Monobasic dihydrogen potassium phosphate, 10.26% Trehalose</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
Reconstitution	<p>Lyophilized contents may appear as either a translucent film or a white powder. This variance does not affect the quality of the product. Store lyophilized form at room temperature. Reconstitute in phosphate buffered saline, aliquot and store at -80°C for 12 months or +4°C for 1 week. Avoid repeated freeze-thaw.</p>
General Info	
Function	<p>Produced by activated macrophages, IL-1 stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity. IL-1 proteins are involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells.</p>
Sequence similarities	<p>Belongs to the IL-1 family.</p>
Domain	<p>The similarity among the IL-1 precursors suggests that the amino ends of these proteins serve some as yet undefined function.</p>
Cellular localization	<p>Secreted. The lack of a specific hydrophobic segment in the precursor sequence suggests that IL-1 is released by damaged cells or is secreted by a mechanism differing from that used for other secretory proteins.</p>
Images	



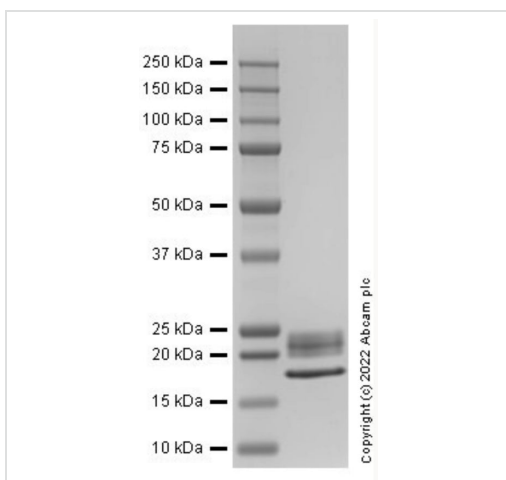
HPLC - Recombinant Rat IL-1 alpha Protein
(ab290099)

HPLC analysis of ab290099



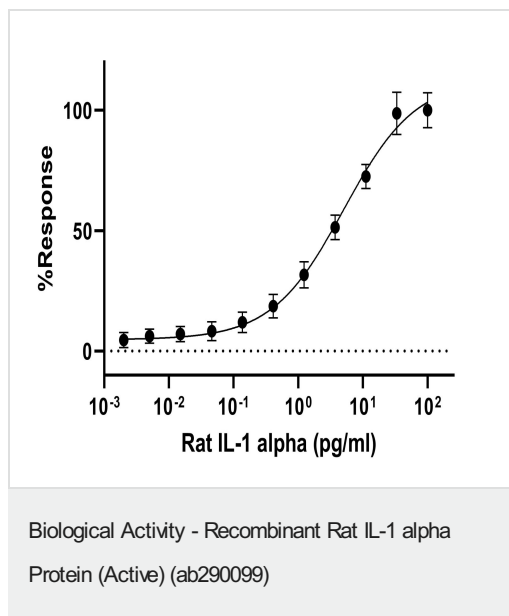
Mass Spectrometry - Recombinant Rat IL-1 alpha
Protein (ab290099)

Mass determination by ESI-TOF. Predicted MW is 17850.37 Da
(\pm 10 Da by ESI-TOF). Observed MW is 17851.27 Da.



SDS-PAGE - Recombinant Rat IL-1 alpha Protein
(ab290099)

SDS-PAGE analysis of ab290099



Fully biologically active determined by the dose dependent proliferation of D10S cells. The ED50 ≤ 5.07 pg/ml, corresponding to a specific activity of 1.97 x 10⁸ units/mg.

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

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