

Product datasheet

Recombinant human IL-15 protein (Active) ab259403

1 References 5 Images

Description

Product name	Recombinant human IL-15 protein (Active)
Biological activity	Fully biologically active determined by the dose dependent proliferation of KHYG-1 cells. ED ₅₀ is ≤1.28 ng/mL, corresponding to a specific activity of 7.8 x 10 ⁵ units/mg.
Purity	≥ 95 % SDS-PAGE. ≥ 95 % HPLC.
Endotoxin level	< 0.005 Eu/μg
Expression system	HEK 293 cells
Accession	P40933
Protein length	Full length protein
Animal free	Yes
Carrier free	Yes
Nature	Recombinant
Species	Human
Predicted molecular weight	13 kDa
Molecular weight information	NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKV/TAMKCFLELQVISLESGDASIHDTVENL IILANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS
Amino acids	49 to 162
Additional sequence information	N-terminal glycine. Mature chain lacking the signal and propeptides.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab259403** in the following tested applications.

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

Applications	Sandwich ELISA
	HPLC
	Mass Spectrometry
	SDS-PAGE
	Cell Culture
	Functional Studies

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

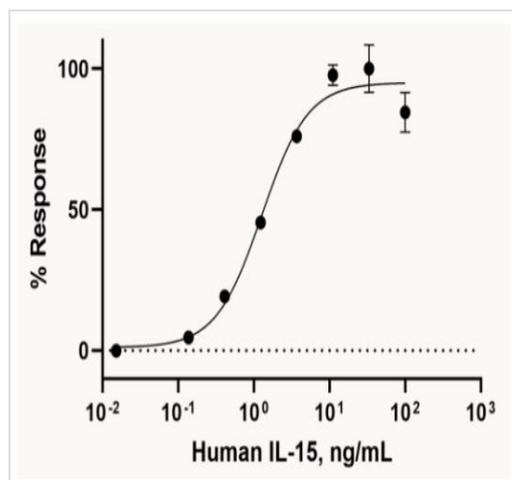
Preparation and Storage

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. Reconstituted protein stable at -80C for 12 months or 4C for 1 week. 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	Cytokine that stimulates the proliferation of T-lymphocytes. Stimulation by IL-15 requires interaction of IL-15 with components of IL-2R, including IL-2R beta and probably IL-2R gamma but not IL-2R alpha.
Tissue specificity	Most abundant in placenta and skeletal muscle. It is also detected in the heart, lung, liver and kidney. IL15-S21AA is preferentially expressed in tissues such as testis and thymus.
Sequence similarities	Belongs to the IL-15/IL-21 family.
Cellular localization	Secreted and Cytoplasm. Nucleus. IL15-S21AA is not secreted, but rather is stored intracellularly, appearing in the nucleus and cytoplasmic components.

Images



Functional Studies - Recombinant human IL-15 protein (Active) (ab259403)

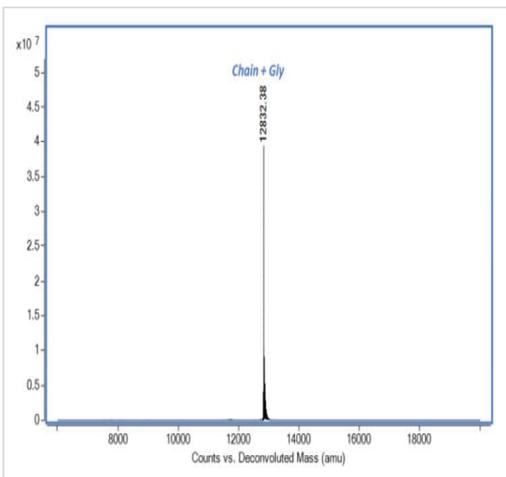
Functional analysis of ab259403.

Fully biologically active determined by the dose dependent proliferation of KHYG-1 cells.

ED₅₀ is ≤1.28 ng/mL, corresponding to a specific activity of 7.8 x 10⁵ units/mg.

Cell based assay testing is performed on the first lot of protein only and is provided as a reference for protein activity; subsequent lots of protein must pass all biophysical quality control parameters that meet the same parameters as the first lot.

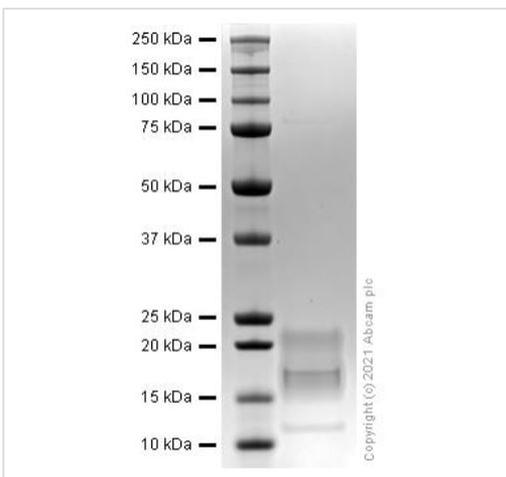
Lot: GR3379485-1



Mass Spectrometry - Recombinant human IL-15 protein (Active) (ab259403)

Mass determination by ESI-TOF.

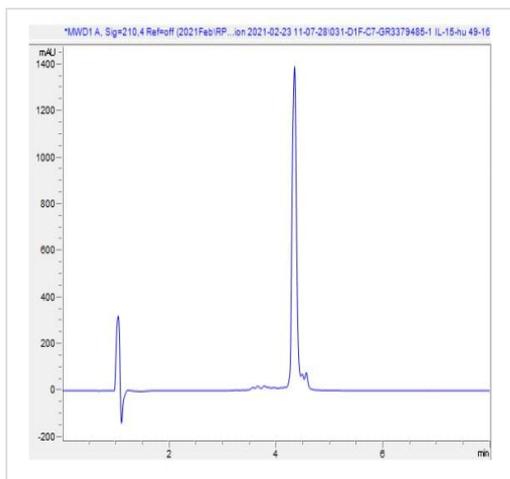
Predicted MW is 12830.92 Da (+/- 10 Da by ESI-TOF). Observed MW is 12832.38 Da.



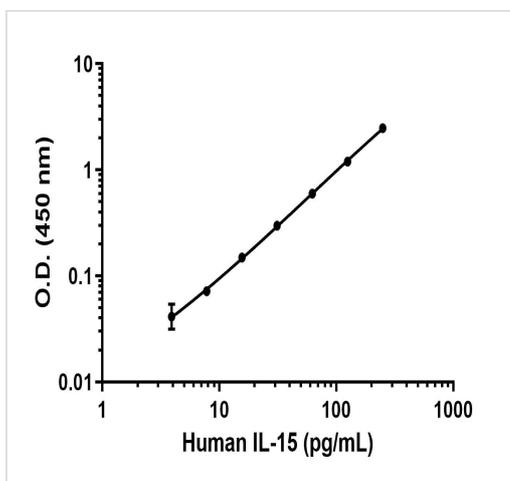
SDS-PAGE - Recombinant human IL-15 protein (Active) (ab259403)

SDS-PAGE analysis of ab259403.

HPLC analysis of ab259403.



HPLC - Recombinant human IL-15 protein (Active)
(ab259403)



Sandwich ELISA - Recombinant human IL-15 protein
(Active) (ab259403)

Background subtracted standard curve using Human IL-15 Antibody Pair - BSA and Azide free (ab241883) and Recombinant human IL-15 protein (Active) (ab259403) in sandwich ELISA.

The ELISA was performed using the components of the corresponding SimpleStep® kit, which uses the same antibody pair with a different formulation and format.

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