

Interleukin-11 Recombinant Protein | IL-11 recombinant protein

Recombinant Human Interleukin-11

CATALOG # AAA50427	HOST E Coli	APPLICATIONS ELISA
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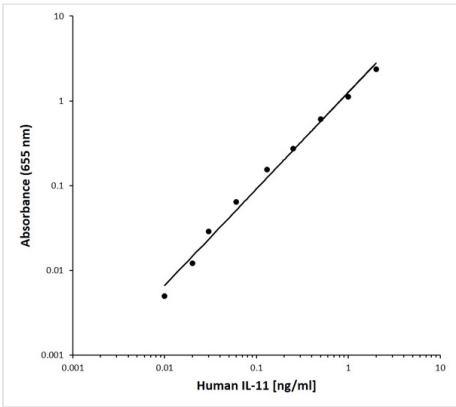
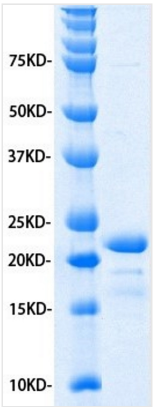
PRODUCT SYNONYMS

Interleukin-11; Recombinant Human Interleukin-11; IL-11; IL-11 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Recombinant protein expressed in E Coli and purified by ion exchange chromatography >=90 % determined by coomassie blue staining of a reducing SDS-PAGE gel
Form/Format	50 mM Tris-HCl, pH8.0, 0.15 M NaCl 1.0% Trehalose 0.05% Tween80 Purified recombinant protein - lyophilized
Concentration	100ug/ml after reconstitution (varies by lot)
Applicable Applications for IL-11 recombinant protein	ELISA
Target Species	Human
Reconstitution	Centrifuge vial prior to reconstitution. Reconstitute to 100ug/ml by adding 100ul ddH2O. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Lab recommends that the vial is gently mixed after reconstitution. Do not vortex.
Preparation and Storage	Prior to reconstitution store at -70 degree C. Following reconstitution store at -80 degree C. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.

IMAGES



Application Data
Recombinant Human interleukin-11 (AAA50427) was analyzed under reducing denaturing conditions (Lane 2). The molecular weight (kDa) of the marker proteins (Lane 1) are displayed on the left hand of the image. Bands were visualized using Coomassie stains.

ELISA
Sandwich ELISA analysis of human IL-11 using Mouse anti Human interleukin-11 as a capture reagent and biotinylated Mouse anti Human interleukin-11 as a detection reagent with recombinant Human interleukin-11 (AAA50427) as the antigen.

ADDITIONAL INFORMATION

Related Product Information for IL-11 recombinant protein	Recombinant Human interleukin-11 Interleukin-11 (IL-11), also known as AGIF belongs to the IL-6 family of cytokines, and plays a protective role in acute inflammatory settings (Traber et al. 2019). IL-11 has both pro- and anti-inflammatory functions through activation of signaling cascades (Lokau et al. 2017). IL-11 is largely absent in the body fluids of healthy people, but is upregulated in a series of diseases. IL-11 can be expressed in fibroblasts, and its inhibition has been suggested as a treatment for fibrotic disease (Schafer et al. 2017), including fibrotic cardiovascular diseases (Ye et al. 2019). A role of IL-11 has also been identified in development of inflammation-associated cancers, and its inhibition may be a therapeutic goal (Putoczki et al. 2013). This recombinant Human interleukin-11 can be used to create a standard curve in a sandwich ELISA with purified Mouse anti Human interleukin-11 antibody, clone D08-4C12 as a capture antibody and biotinylated Mouse anti Human interleukin-11 antibody, clone C16-4B8 as the detection antibody.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	391353380
NCBI GeneID	3589
NCBI Accession #	NP_001254647.1
NCBI GenBank Nucleotide #	NM_001267718.1
UniProt Accession #	P20809; Q96EB4; B4DQV5
Molecular Weight	21,429 Da
NCBI Official Full Name	interleukin-11 isoform 2
NCBI Official Synonym Full Names	interleukin 11
NCBI Official Symbol	IL11
NCBI Official Synonym Symbols	AGIF; IL-11
NCBI Protein Information	interleukin-11; oprelvekin; adipogenesis inhibitory factor
UniProt Protein Name	Interleukin-11
UniProt Gene Name	IL11
UniProt Synonym Gene Names	IL-11; AGIF

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/il11-recombinant-protein-e-coli-elisa/50427>