IL-33 Protein

PRODUCT OVERVIEW

Product Name	IL-33, Protein
Full Product Name	IL-33
Product Gene Name	IL-33 protein
Product Synonym Names	Interleukin 33; IL-33; IL33; C9orf26; NKHEV; Interleukin-1 family member 11; DVS27; NF-HEV and IL-1F11
Host	Mouse
Form/Format	Lyophilized
Purity/Purification	Greater than 95% as determined by reducing SDS-PAGE.
Preparation and Storage	Lyophilized protein should be stored at <-20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 degree C for 2-7 days. Aliquots of reconstituted samples are stable at <-20 degree C for 3 months.
Molecular Weight	29,486 Da
3D Structure	ModBase 3D Structure for Q66H70
Expression System	E Coli
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 mug/ml. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Endotoxin	Less than 0.1 ng/ug (1 IEU/ug) as determined by LAL test.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IL-33 protein	Background: Mouse Interleukin 33 (IL-33) is a 30 kDa proinflammatory cytokine which may also regulates gene transcription in producer cells. IL-33 is constitutively expressed in smooth muscle and airway epithelia. IL-33 was identified based on sequence and structural homology with IL-1 family cytokines. It is up?regulated in arterial smooth muscle, dermal fibroblasts, and keratinocytes following IL-1 alpha or IL?1 beta stimulation. IL-33 is structurally related to IL-1, which induces helper T cells to produce type 2 cytokines and acts through the receptor IL1RL-1. BindingIL-33 to this receptor activates NF-kappa-B and MAP kinases and induces in vitro Th2 cells to produce cytokines. In vivo, IL-33 induces the expression of IL-4, IL-5, IL-13 and also leads to severe pathological changes in mucosal organs. Description: Recombinant Mouse Interleukin-33 is produced by our E Coli expression system and the target gene encoding Ser109-Ile266 is expressed.
Other Notes	Small volumes of IL-33 protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IL-33 purchase	MBS8532961 is a protein targeting IL-33. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL-33. It may not necessarily be applicable to this product.

NCBI GI #	62079057
NCBI GeneID	361749
NCBI Accession #	NP_001014188.1

UniProt Primary Accession #	Q66H70
UniProt Related Accession #	Q66H70
GenBank Nucleotide #	NM_001014166.1
NCBI Official Full Name	interleukin-33
NCBI Official Synonym Full Names	interleukin 33
NCBI Official Symbol	Il33
NCBI Official Synonym Symbols	RGD1311155
UniProt Protein Name	Interleukin-33
UniProt Gene Name	Il33
UniProt Synonym Gene Names	IL-33
NCBI Protein Information	interleukin-33
UniProt Comments for IL-33	Cytokine that binds to and signals through the IL1RL1/ST2 receptor which in turn activates NF-kappa-B and MAPK signaling pathways in target cells. Involved in the maturation of Th2 cells inducing the secretion of T-helper type 2-associated cytokines. Also involved in activation of mast cells, basophils, eosinophils and natural killer cells. Acts as a chemoattractant for Th2 cells, and may function as an "alarmin", that amplifies immune responses during tissue injury ().
Research Articles on IL-33	**1.** A strong relationship of IL-33/ST2 with natriuretic peptides and classical inflammatory mediators was observed in cardiac tissue. Expression of sST2 in cardiac, adipose and liver tissue decreased in obese rats compared with controls, suggesting an involvement for IL-33/ST2 system in molecular mechanisms of obesity.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/protein/il-33/8532961