Ig Lambda Chain V-II Region NIG-58 (IGLV2-11) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ig lambda chain V-II region NIG-58 (IGLV2-11), Recombinant Protein
Full Product Name	Recombinant Human Ig lambda chain V-II region NIG-58
Product Gene Name	IGLV2-11 recombinant protein
Sequence	QSALTQPRSV SGSPGQSLTI SCSGAPCDVD GCESVSWYQQ HPGKAPKLII YGFSNRPSGV PLRFSGSKSG DAASLTISGL QVEDEADYYC SSYADSSVIF GAGTKLTVLR
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	12,644 Da
Sequence Positions	1-110, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for P01713
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IGLV2-11 recombinant protein	MBS1263086 is a recombinant protein targeting IGLV2-11. Also known as Recombinant Human Ig lambda chain V-II region NIG-58. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of IGLV2-11 recombinant 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IGLV2-11. It may not necessarily be applicable to this product.

NCBI GI #	126563
NCBI Accession #	P01713.1
UniProt Primary Accession #	P01713
UniProt Secondary Accession #	P01707; P01708; P01712; P01713; P80422; A0A075B6K3
UniProt Protein Name	Immunoglobulin lambda variable 2-11
UniProt Synonym Protein Names	Ig gamma lambda chain V-II region DOT
Protein Family	Immunoglobulin lambda variable

UniProt Gene Name	IGLV2-11
UniProt Comments for IGLV2-11	V region of the variable domain of immunoglobulin light chains that participates in the antigen recognition (PubMed:24600447). Immunoglobulins, also known as antibodies, are membrane-bound or secreted glycoproteins produced by B lymphocytes. In the recognition phase of humoral immunity, the membrane-bound immunoglobulins serve as receptors which, upon binding of a specific antigen, trigger the clonal expansion and differentiation of B lymphocytes into immunoglobulins-secreting plasma cells. Secreted immunoglobulins mediate the effector phase of humoral immunity, which results in the elimination of bound antigens (PubMed:20176268, PubMed:22158414). The antigen binding site is formed by the variable domain of one heavy chain, together with that of its associated light chain. Thus, each immunoglobulin has two antigen binding sites with remarkable affinity for a particular antigen. The variable domains are assembled by a process called V-(D)-J rearrangement and can then be subjected to somatic hypermutations which, after exposure to antigen and selection, allow affinity maturation for a particular antigen (PubMed:17576170, PubMed:20176268).
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