Beta-Defensin 114 (DEFB114) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Beta-defensin 114 (DEFB114), Recombinant Protein
Full Product Name	Recombinant Human Beta-defensin 114 (DEFB114)
Product Gene Name	DEFB114 recombinant protein
Product Synonym Gene Name	DEFB114
Sequence	DRCTKRYGRC KRDCLESEKQ IDICSLPRKI CCTEKLYEED DMF
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	8,318 Da
Sequence Positions	27-69, 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.
OMIM	615243
3D Structure	ModBase 3D Structure for Q30KQ6
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for DEFB114 recombinant protein	MBS1318807 is a recombinant protein targeting DEFB114. Also known as Recombinant Human Beta-defensin 114 (DEFB114). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of DEFB114 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 DEFB114. It may not necessarily be applicable to this product.

NCBI GI #	82734219
NCBI GeneID	245928
NCBI Accession #	NP_001032588.1
UniProt Primary Accession #	Q30KQ6
UniProt Secondary Accession #	Q8NES9

UniProt Related Accession #	Q30KQ6
GenBank Nucleotide #	NP_001032588.1
NCBI Official Full Name	beta-defensin 114
NCBI Official Synonym Full Names	defensin beta 114
NCBI Official Symbol	DEFB114
NCBI Official Synonym Symbols	DEFB14; DEFB-14
UniProt Protein Name	Beta-defensin 114
UniProt Synonym Protein Names	Beta-defensin 14; DEFB-14; Defensin, beta 114
Protein Family	Beta-defensin
UniProt Gene Name	DEFB114
UniProt Synonym Gene Names	DEFB14; DEFB-14
NCBI Protein Information	beta-defensin 114
NCBI Summary for DEFB114	Defensins form a family of antimicrobial and cytotoxic peptides made by neutrophils. Defensins are short, processed peptide molecules that are classified by structure into three groups: alpha-defensins, beta-defensins and theta-defensins. All beta-defensin genes are densely clustered in four to five syntenic chromosomal regions. The protein encoded by this gene is a beta-defensin with antimicrobial activity against E. coli, S. aureus, and C. albicans. The encoded protein also binds and neutralizes lipopolysaccharide (LPS), a factor involved in inflammatory diseases and male reproductive issues. [provided by RefSeq, Nov 2014]
UniProt Comments for DEFB114	Has a salt-sensitive antimicrobial activity against Gram-negative bacteria, including E.coli, Gram-positive, including S.aureus, and fungi, including C.albicans. Binds to and neutralizes bacterial lipopolysaccharides (LPS), abolishing TNF production by macrophages challenged with LPS. Rescues the LPS-induced reduction of sperm motility in vitro and may protect from LPS-induced lethality.
Research Articles on DEFB114	**1.** Human beta-defensin 114 regulates lipopolysaccharide (LPS)-mediated inflammation and protects sperm from motility loss. It also has antimicrobial activity against E. coli, S. aureus, and C. albicans.
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/recombinant-protein/beta-defensin-114-defb114/1318807