Gallinacin-2 (GAL2) Chicken Recombinant Protein

PRODUCT OVERVIEW

Product Name	Gallinacin-2 (GAL2), Recombinant Protein
Full Product Name	Recombinant Chicken Gallinacin-2 (GAL2)
Product Gene Name	GAL2 recombinant protein
Product Synonym Gene Name	GAL2
Product Synonym Names	Recombinant Gallinacin-2 (GAL2); Gallinacin-2; Gal-2; Beta-defensin 2
Sequence	LFCKGGSCHF GGCPSHLIKV GSCFGFRSCC KWPWNA
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 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	7,142 Da
Sequence Positions	29-64aa, Full Length of Mature 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.
Chromosome Location	Chromosome: 3; NC_006090.3 (107079770..107082274). Location: chromosome: 3
3D Structure	ModBase 3D Structure for P46158
Species	Gallus gallus (Chicken)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GAL2 recombinant protein	MBS1258233 is a recombinant protein targeting GAL2. Also known as Recombinant Chicken Gallinacin-2 (GAL2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of GAL2 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 GAL2. It may not necessarily be applicable to this product.

NCBI GI #	319655709
NCBI GeneID	395840
NCBI Accession #	NP_001188328.1
UniProt Primary Accession #	P46158
UniProt Secondary Accession #	Q09MT0; Q0PWH3; Q6B9W8; Q6GXJ3
UniProt Related Accession #	P46158

GenBank Nucleotide #	NM_001201399.1
NCBI Official Full Name	gallinacin-2
NCBI Official Symbol	GAL2
UniProt Protein Name	Gallinacin-2
UniProt Synonym Protein Names	Beta-defensin 2
Protein Family	Galactose transporter
UniProt Gene Name	GAL2
UniProt Synonym Gene Names	Gal-2
UniProt Entry Name	GLL2_CHICK
NCBI Protein Information	gallinacin-2; Gal 2; gal-2; beta-defensin 2; antimicrobial peptide 2
UniProt Comments for GAL2	Function: Potent antibacterial activity against the Gram-negative bacterium E.coli ML-35, and against the Gram-positive bacterium L.monocytogenes EGD. Lacks antifungal activity against C.albicans. Ref.5 Subcellular location: Secreted. Cytoplasmic granule. Tissue specificity: Expressed in circulating heterophil granulocytes and bone marrow (at protein level). Strong expression in the bone marrow, lung and testis. Moderate expression in the bursa and intestine. Low expression in the cloaca, gall bladder, brain, pancreas, trachea, air sacs and spleen. Expressed in the vagina, ovarian stroma and the theca layer of the ovarian follicle, but not in the granulosa layer of the ovarian follicle. Ref.6 Ref.7 Ref.8 Ref.9 Developmental stage: Detected in the theca layer of the ovarian follicle in the white follicle (WF), F1, F3, F5, and postovulatory follicle stages. In the vagina expression is higher in laying hens than in non-laying hens, and is higher in older laying hens than in young laying hens. Ref.8 Ref.9 Induction: Not induced in the ovarian follicle by intravenous injection of LPS. Expression in cultured vaginal cells is increased by LPS and S.enteritidis. Ref.8 Ref.9 Sequence similarities: Belongs to the beta-defensin family. Mass spectrometry: Molecular mass is 3916.0 Da from positions 29 - 64. Determined by ESI. Ref.5Molecular mass is 3916.1 Da from positions 29 - 64. Determined by MALDI. Ref.6
Research Articles on GAL2	**1.** intestinal epithelium express beta-defensin antimicrobial peptides that may play a role in immunoprotection against Salmonella Enteritidis.
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