Glycine N-Acyltransferase (GLYAT) Bovine Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glycine N-acyltransferase (GLYAT), Recombinant Protein
Full Product Name	Recombinant Bovine Glycine N-acyltransferase (GLYAT)
Product Gene Name	GLYAT recombinant protein
Product Synonym Gene Name	GLYAT
Sequence	MFLLQGAQML QMLEKSLRKS LPMSLKVYGT VMHMNHGNPF NLKALVDKWP DFQTVVIRPQ EQDMKDDLDH YTNTYHVYSE DLKNCQEFLD LPEVINWKQH LQIQSTQSSL NEVIQNLAAT KSFKVKRSKN ILYMASETIK ELTPSLLDVK NLPVGDGKPK AIDPEMFKLS SVDPSHAAVV NRFWLFGGNE RSLRFIERCI QSFPNFCLLG TEGTPVSWSL MDQTGEMRMA GTLPEYRAQG LVTHAIYQQA QCLLKRGFPV YSHVDPKNQI MQKMSQSLNH VPMPSDWNQW NCEPL
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	33,907 Da
Sequence Positions	1-295, 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 Q2KIR7
Species	Bovine
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GLYAT recombinant protein	The glycine-N-acyltransferase protein conjugates glycine with acyl-CoA substrates in the mitochondria. The protein is thought to be important in the detoxification of endogenous and xenobiotic acyl-CoA s. Two transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of GLYAT 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.
Searchable Terms for GLYAT purchase	MBS1326895 is a recombinant protein targeting GLYAT. Also known as Recombinant Bovine Glycine N-acyltransferase (GLYAT). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

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

NCBI GI #	29135315
NCBI GeneID	281787
NCBI Accession #	NP_803479.1

UniProt Primary Accession #	Q2KIR7
UniProt Secondary Accession #	O46686
UniProt Related Accession #	Q2KIR7
GenBank Nucleotide #	NM_177513.2
NCBI Official Full Name	glycine N-acyltransferase
NCBI Official Symbol	GLYAT
UniProt Protein Name	Glycine N-acyltransferase
UniProt Synonym Protein Names	Acyl-CoA:glycine N-acyltransferase; AAc; Aralkyl acyl-CoA N-acyltransferase
Protein Family	Glycine N-acyltransferase
UniProt Gene Name	GLYAT
UniProt Synonym Gene Names	AAc
NCBI Protein Information	glycine N-acyltransferase
UniProt Comments for GLYAT	Mitochondrial acyltransferase which transfers an acyl group to the N-terminus of glycine and glutamine, although much less efficiently. Can conjugate a multitude of substrates to form a variety of N-acylglycines, thereby detoxify xenobiotics, such as benzoic acid or salicylic acid, and endogenous organic acids, such as isovaleric acid.
Research Articles on GLYAT	**1.** Data suggest a catalytic mechanism for GLYAT in which Glu226 functions to deprotonate glycine, facilitating nucleophilic attack on the benzoyl-CoA; studies involve recombinant protein, molecular modeling, and site-directed mutagenesis.
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