Glycogen Synthase Kinase 3 Beta, Active (GYS1) Active Protein

PRODUCT OVERVIEW

Product Name	Glycogen Synthase Kinase 3 beta, active (GYS1), Active Protein
Full Product Name	Glycogen Synthase Kinase 3 beta, active, Recombinant, Human (GSK3b)
Product Gene Name	GYS1 active protein
Host	Baculovirus in Sf9 insect cells
Form/Format	Supplied as a liquid in 40mM Tris-HCl, pH 8.0, 110mM sodium chloride, 2.2mM potassium chloride, 20% glycerol, 3mM DTT.
Purity/Purification	Highly Purified 0.89
Preparation and Storage	Aliquot to avoid repeated freezing and thawing and store at -70 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquots are stable for 6 months.
Molecular Weight	73kD
Chromosome Location	chromosome: Un
3D Structure	ModBase 3D Structure for P13834
Active Protein Note	Protein activity can be an ambiguous term. Please refer to the data sheet or inquire with Technical Support to determine the definition of activity for this product.
Specific Activity	~500pmol/min/ug
Product Categories/Family for GYS1 active protein	Molecular Biology; MB-Protein Kinases
Application Notes for GYS1 active protein	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Related Product Information for GYS1 active protein	Recombinant full-length human GSK3b was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag. The gene accession number is NM_002093.
Other Notes	Small volumes of GYS1 active 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 GYS1 purchase	MBS636795 is an active protein targeting GYS1. Also known as Glycogen Synthase Kinase 3 beta, active, Recombinant, Human (GSK3b). Host: Baculovirus in Sf9 insect cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GYS1. It may not necessarily be applicable to this product.

NCBI GI #	126723048
NCBI GeneID	100008660
NCBI Accession #	NP_001075492.1
UniProt Primary Accession #	P13834
UniProt Secondary Accession #	O18817
UniProt Related Accession #	P13834

GenBank Nucleotide #	NM_001082023.1
NCBI Official Full Name	glycogen
NCBI Official Symbol	GYS1
UniProt Protein Name	Glycogen [starch] synthase, muscle
Protein Family	Glycogen [starch] synthase
UniProt Gene Name	GYS1
UniProt Synonym Gene Names	GYS
UniProt Entry Name	GYS1_RABIT
NCBI Protein Information	glycogen [starch] synthase, muscle; glycogen [starch] synthase, muscle
UniProt Comments for GYS1	GYS1: muscle glycogen synthase 1. Transfers glucosyl residue from UDP-glucose to glycogen. Regulated allosterically by glucose-6-phosphate, and by PKA-mediated phosphorylation. Protein type: Transferase; Carbohydrate Metabolism - starch and sucrose; EC 2.4.1.11
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/active-protein/glycogen-synthase-kinase-3-beta-active/636795