1,3-Beta-Glucanosyltransferase Gel1 (gel1) Neosartorya Fumigata Recombinant Protein

PRODUCT OVERVIEW

Product Name	1,3-beta-glucanosyltransferase gel1 (gel1), Recombinant Protein
Full Product Name	Recombinant Neosartorya fumigata 1,3-beta-glucanosyltransferase gel1 (gel1)
Product Gene Name	gel1 recombinant protein
Product Synonym Gene Name	gel1; bgt2; AFUA_2G01170
Product Synonym Names	1,3-beta-glucanosyltransferase gel1; EC=2.4.1.-; Glucan elongating glucanosyltransferase 1
Sequence	A PSIKARDDVT PITVKGNAFF KGAERFYIRG VDYQPGGSSD LADPIADADG CKRDIAKFKE LGLNTIRVYS VDNSKNHDEC MNALADAGIY LVLDVNTPKY SINRAKPKES YNDVYLQYIF ATVDAFAGYK NTLAFFSGNE VINDGPSSSA APYVKAVTRD LRQYIRSRKY REIPVGYSAA DIDTNRLQMA QYMNCGSDDE RSDFFAFNDY SWCDPSSFKT SGWDQKVKNF TGYGLPLFLS EYGCNTNKRQ FQEVSSLYST DMTGVYSGGL VYEYSQEASN YGLVEISGNN VKELPDFDAL KTAFEKTSNP SGDGNYNKTG GANPCPAKDA PNWDVDNDAL PAIPEPAKKY MTEGAGKGPG FAGPGSQDRG TQSTATAEPG SGSATGSSSS GTSTSSKGA
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	48,077 Da
Sequence Positions	20-419aa; 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 P0C7S9
Species	Neosartorya fumigata (strain MYA-4609 / Af293 / CBS 101355 / FGSC A1100) (Aspergillus fumigatus)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gel1 recombinant protein	MBS1258612 is a recombinant protein targeting gel1. Also known as Recombinant Neosartorya fumigata 1,3-beta-glucanosyltransferase gel1 (gel1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of gel1 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 gel1. It may not necessarily be applicable to this product.

NCBI GI #	70988799
NCBI GeneID	3506970
NCBI Accession #	XP_749253.1

UniProt Primary Accession #	P0C7S9
UniProt Secondary Accession #	O74687; Q4WIP0
UniProt Related Accession #	P0C7S9
GenBank Nucleotide #	XM_744160.1
NCBI Official Full Name	1,3-beta-glucanosyltransferase Gel1
NCBI Official Symbol	AFUA_2G01170
UniProt Protein Name	1,3-beta-glucanosyltransferase gel1
UniProt Synonym Protein Names	Glucan elongating glucanosyltransferase 1
Protein Family	1,3-beta-glucanosyltransferase
UniProt Gene Name	gel1
UniProt Synonym Gene Names	bgt2
UniProt Entry Name	GEL1_ASPFU
NCBI Protein Information	1,3-beta-glucanosyltransferase Gel1
UniProt Comments for gel1	Splits internally a 1,3-beta-glucan molecule and transfers the newly generated reducing end (the donor) to the non-reducing end of another 1,3-beta-glucan molecule (the acceptor) forming a 1,3-beta linkage, resulting in the elongation of 1,3-beta-glucan chains in the cell wall. Involved in cell wall morphogenesis ().
Research Articles on gel1	**1.** N-glycosylation is essential for Gel1 function and thus required for beta-glucan synthesis.
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.
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