Gibberellin 2-Beta-Dioxygenase 8 (GA2OX7) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Gibberellin 2-beta-dioxygenase 8 (GA2OX7), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Gibberellin 2-beta-dioxygenase 8 (GA2OX7)
Product Gene Name	GA2OX7 recombinant protein
Sequence	MDPPFNEIYN NLLYNQITKK DNDVSEIPFS FSVTAVVEEV ELPVIDVSRL IDGAEEEREK CKEAIARASR EWGFFQVINH GISMDVLEKM RQEQIRVFRE PFDKKSKSEK FSAGSYRWGT PSATSIRQLS WSEAFHVPMT DISDNKDFTT LSSTMEKFAS ESEALAYMLA EVLAEKSGQN SSFFKENCVR NTCYLRMNRY PPCPKPSEVY GLMPHTDSDF LTILYQDQVG GLQLIKDNRW IAVKPNPKAL IINIGDLFQA WSNGMYKSVE HRVMTNPKVE RFSTAYFMCP SYDAVIECSS DRPAYRNFSF REFRQQVQED VKKFGFKVGL PRFLNHVY
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	39,086 Da
Sequence Positions	1-338, 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 O49561
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GA2OX7 recombinant protein	MBS1250886 is a recombinant protein targeting GA2OX7. Also known as Recombinant Arabidopsis thaliana Gibberellin 2-beta-dioxygenase 8 (GA2OX7). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of GA2OX7 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 GA2OX7. It may not necessarily be applicable to this product.

NCBI GI #	145340471
NCBI GeneID	827868
NCBI Accession #	NP_193852.2
UniProt Primary Accession #	O49561
UniProt Secondary Accession #	Q1PE62; A0MF87

UniProt Related Accession #	O49561
GenBank Nucleotide #	NM_118239.3
NCBI Official Full Name	gibberellin 2-oxidase 8
NCBI Official Symbol	GA2OX8
NCBI Official Synonym Symbols	ARABIDOPSIS THALIANA GIBBERELLIN 2-OXIDASE 8; ATGA2OX8; F7J7.140; F7J7_140; gibberellin 2-oxidase 8
UniProt Protein Name	Gibberellin 2-beta-dioxygenase 8
UniProt Synonym Protein Names	GA 2-oxidase 8; Gibberellin 2-beta-hydroxylase 8; Gibberellin 2-oxidase 8
Protein Family	Gibberellin 2-beta-dioxygenase
UniProt Gene Name	GA2OX8
NCBI Protein Information	gibberellin 2-oxidase 8
NCBI Summary for GA2OX7	Encodes a protein with gibberellin 2-oxidase activity which acts specifically on C-20 gibberellins.
UniProt Comments for GA2OX7	Catalyzes the 2-beta-hydroxylation of gibberellins (GA) precursors, rendering them unable to be converted to active GAs. Hydroxylates the C20-GA GA12 and GA53, but is not active on C19-GAs, like GA1, GA4, GA9 and GA20.
Research Articles on GA2OX7	**1.** scc7-D (suppressors of cry1cry2)is a gain-of-expression allele of the GA2ox8 gene.
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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