Indole-3-Acetic Acid-Amido Synthetase Gh3.4 (Gh3.4) (GH3.4) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Indole-3-acetic acid-amido synthetase GH3.4 (GH3.4), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Indole-3-acetic acid-amido synthetase GH3.4 (GH3.4) , partial
Product Gene Name	GH3.4 recombinant protein
Product Synonym Gene Name	GH3.4
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	67,046 Da
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 Q9LQ68
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GH3.4 recombinant protein	MBS1454646 is a recombinant protein targeting GH3.4. Also known as Recombinant Arabidopsis thaliana Indole-3-acetic acid-amido synthetase GH3.4 (GH3.4) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of GH3.4 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 GH3.4. It may not necessarily be applicable to this product.

NCBI GI #	15218026
NCBI GeneID	842240
NCBI Accession #	NP_176159.1
UniProt Primary Accession #	Q9LQ68
UniProt Related Accession #	Q9LQ68
GenBank Nucleotide #	NM_104643.1
NCBI Official Full Name	Auxin-responsive GH3 family protein
NCBI Official Symbol	GH3.4

NCBI Official Synonym Symbols	T30E16.2; T30E16_2
UniProt Protein Name	Indole-3-acetic acid-amido synthetase GH3.4
UniProt Synonym Protein Names	Auxin-responsive GH3-like protein 4; AtGH3-4; CF4-like protein
Protein Family	Indole-3-acetic acid-amido synthetase
UniProt Gene Name	GH3.4
UniProt Synonym Gene Names	AtGH3-4
NCBI Protein Information	Auxin-responsive GH3 family protein
NCBI Summary for GH3.4	encodes an IAA-amido synthase that conjugates Asp and other amino acids to auxin in vitro.
UniProt Comments for GH3.4	Catalyzes the synthesis of indole-3-acetic acid (IAA)-amino acid conjugates, providing a mechanism for the plant to cope with the presence of excess auxin. Strongly reactive with Glu, Gln, Trp, Asp, Ala, Leu, Phe, Gly, Tyr, Met, Ile and Val. Little or no product formation with His, Ser, Thr, Arg, Lys, or Cys. Also active on pyruvic and butyric acid analogs of IAA, PAA and the synthetic auxin naphthaleneacetic acid (NAA). The two chlorinated synthetic auxin herbicides 2,4-D and 3,6-dichloro-o-anisic acid (dicamba) cannot be used as substrates.
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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