Indole-3-acetic acid-amido synthetase GH3.2 (GH3.2), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP05455*

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Indole-3-acetic acid-amido synthetase GH3.2 (GH3.2) , partial

Product Gene Name
GH3.2 recombinant protein

Product Synonym Gene Name
GH3.2

Purity
Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Format
Lyophilized or liquid (Format to be determined during the manufacturing process)

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
68,160 Da

Storage
Store at -20℃. For long-term storage, store at -20℃ or -80℃. Store working aliquots at 4℃ for up to one week. Repeated freezing and thawing is not recommended.

Protein Family
Indole-3-acetic acid-amido synthetase

NCBI Accession
NP_195455.1

NCBI GI
15235538

NCBI GenBank Nucleotide
NM_119902.4

NCBI GeneID
829893

NCBI Official Full Name
Auxin-responsive GH3 family protein

NCBI Official Symbol
BRU6

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NCBI Official Synonym Symbols
AUR3; AUXIN UPREGULATED 3; F6G17.40; F6G17_40; GH3-2; GH3.2; YADOKARI 1; YDK1

NCBI Protein Information
Auxin-responsive GH3 family protein

NCBI Summary
Encodes an IAA-amido synthase that conjugates Asp and other amino acids to auxin in vitro. Lines carrying insertions in this gene are hypersensitive to auxin. May function as a negative component in auxin signaling by regulating auxin activity.

UniProt Gene Name
GH3.2

UniProt Synonym Gene Names
BRU6; CF4; YDK1; AtGH3-2

UniProt Protein Name
Indole-3-acetic acid-amido synthetase GH3.2

UniProt Synonym Protein Names
Auxin-responsive GH3-like protein 2; AtGH3-2; Protein YADOKARI 1

UniProt Primary Accession
Q9SZT9

UniProt Secondary Accession
Q93Z39; Q9SLU3; F4JS15

UniProt Comments
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.

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