Beta-glucosidase, chloroplastic (GLU1), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP10421*

Size *0.5 mg (E-Coli)/ 0.05 mg (Baculovirus)/ 0.5 mg (Yeast)/ 0.05 mg (Mammalian-Cell)/ 1 mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)*

Species
Zea mays (Maize)

Full Product Name
Recombinant Zea mays Beta-glucosidase, chloroplastic (GLU1), partial

Product Gene Name
GLU1 recombinant protein

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
64,237 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
Glucoamylase

NCBI Accession
NP_001105454.1

NCBI GI
162462032

NCBI GenBank Nucleotide
NM_001111984.1

NCBI GeneID
542414

NCBI Official Full Name
4-hydroxy-7-methoxy-3-oxo-3,4-dihydro-2H-1,4-benzoxazin-2-yl glucoside beta-D-glucosidase 1, chloroplastic

NCBI Official Symbol
glu1

NCBI Official Synonym Symbols
p60.1; ZmGlu1; GRMZM2G016890

NCBI Protein Information

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https://www.cd-biosciences.com/plant-protein/

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4-hydroxy-7-methoxy-3-oxo-3,4-dihydro-2H-1,4-benzoxazin-2-yl glucoside beta-D-glucosidase 1, chloroplastic

UniProt Gene Name

GLU1

UniProt Synonym Gene Names

ZmGlu1

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4-hydroxy-7-methoxy-3-oxo-3,4-dihydro-2H-1,4-benzoxazin-2-yl glucoside beta-D-glucosidase 1, chloroplastic

UniProt Synonym Protein Names

Beta-D-glucoside glucohydrolase; Beta-glucosidase 1 (EC:3.2.1.21); ZmGlu1

UniProt Primary Accession

P49235

UniProt Related Accession

P49235

UniProt Comments

Is implicated in many functions such as ABA metabolism, hydrolysis of conjugated gibberellins, conversion of storage forms of cytokinins to active forms. Also acts in defense of young plant parts against pests via the production of hydroxamic acids from hydroxamic acid glucosides. Enzymatic activity is highly correlated with plant growth. The preferred substrate is DIMBOA-beta-D-glucoside. Hydrolyzes the chromogenic substrate 6-bromo-2-naphthyl-beta-D-glucoside (6BNGlc) and various artificial aryl beta-glucosides. No activity with cellobiose, arbutin, gentiobiose, linamarin or dhurrin as substrates.

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