Alpha-1,4-glucan-protein synthase [UDP-forming] (UPTG), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP10381*

Size *0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*

Species
Zea mays (Maize)

Full Product Name
Recombinant Zea mays Alpha-1,4-glucan-protein synthase [UDP-forming] (UPTG)

Product Gene Name
UPTG recombinant protein

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

Sequence
MAGTVTVPGS STPSTPLLKD ELDIVIPTIR NLDFLEMWRA FFQPYHLIIV QDGDPTKTIK VPEGFDYELY NRNDINRILG PKASCISFKD SACRCFGYMV SKKKYIYTID DDCFVAKDPS GKDINALEQH IKNLLSPSTP FFFNTLYDPY REGADFVRGY PFSLREGAHT AVSHGLWLNI PDYDAPTQLV KPKERNERYV DAVMTIPKGT LFPMCGMNLA FDRDLIGPAM YFGLMGDGQP IGRYDDMWAG WCVKVICDHL SLGVKTGLPY IWHSKASNPF VNLKKEYKGI FWQEDIIPFF QNVTIPKDCD TVQKCYIYLS GQVKEKLGTI DPYFVKLGDA MVTWIEAWDE LNPSTPAAAN GKAK

Sequence Positions
1-364, Full length protein

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

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
41,204 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
Alpha-1,4-glucan-protein synthase

NCBI Accession
NP_001105598.1

NCBI GI
162463414

NCBI GenBank Nucleotide
NM_001112128.1

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
Tel: 1-631-637-0420
E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/

Alpha-1,4-glucan-protein synthase [UDP-forming] (UPTG), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP10381*

Size *0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*

NCBI GeneID
542592

NCBI Official Full Name
probable UDP-arabinopyranose mutase 1

NCBI Official Symbol
gpm374

NCBI Official Synonym Symbols
RGP; 41kDa; GRMZM2G073725

NCBI Protein Information
probable UDP-arabinopyranose mutase 1

UniProt Gene Name
UPTG

UniProt Synonym Gene Names
UPTG

UniProt Protein Name
Probable UDP-arabinopyranose mutase 1

UniProt Synonym Protein Names
Amylogenin

UniProt Primary Accession
P80607

UniProt Secondary Accession
Q9SAQ2

UniProt Related Accession
P80607

UniProt Comments
Probable UDP-L-arabinose mutase involved in the biosynthesis of cell wall non-cellulosic polysaccharides . Was initially shown to possess an autoglycosylating activity which is dependent on the presence of UDP-glucose and manganese (Ref. 4, PubMed:8832094, PubMed:9620435).

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
Tel: 1-631-637-0420
E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/