

Anthocyanidin 3-O-glucosyltransferase (BZ1), Recombinant Protein

Cat *RP10013*

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*)/ 0.1 mg (*Mammalian-Cell*)/ 1
mg (*Yeast*)/ 1 mg (*Baculovirus*)/ 0.5 mg (*Mammalian-Cell*)
Species *Zea mays* (Maize)

Full Product Name

Recombinant *Zea mays* Anthocyanidin 3-O-glucosyltransferase (BZ1)

Product Gene Name

BZ1 recombinant protein

Purity

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

Sequence

MAPADGESSP PPHVAVVAFP FSSHAAYLLS IARALAAAAA PSGATLSFLS TASSLAQLRK ASSASAGHGL
PGNLRFVEVP DGAPAAEETV PVPRQMQLFM EAAEAGGVKA WLEAARAAAG GARVTCVVDG AFVWPAADAA
ASAGAPWVPV WTAASCALLA HIRTDLSRED VGDQAANRVD EPLISHPGLA SYRVRDLPDG VVSGDFNYVI
SLLVHRMGQC LPRSAAVAL NTFPGLDPPD VTAALAEILP NCVFPGPYHL LLAEDDADTA APADPHGCLA
WLGRQPARGV AAVSFGTVAC PRPDELRELA AGLEASAAPF LWSLREDSWT LLPPGFLDRA AGTGSGLVVP
WAPQVAVLRH PSVGAFVTHA GWASVLEGVS SGVPMACRPF FGDQRMNARS VAHVWGFCAA
FEGAMTSAGV AAAYEELLRG EEGAGMRARA KELQALVAEA FGPGGECRKN FDRFVEIVCR A

Sequence Positions

1-471, 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

48,621 Da

Storage

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

NCBI Accession

P16165.1

NCBI GI

136744

NCBI GeneID

732800

NCBI Official Full Name

Anthocyanidin 3-O-glucosyltransferase

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Cat *RP10013*

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)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

NCBI Official Symbol

BZ1

NCBI Official Synonym Symbols

bz; UFGT; bronze; UGT71A1; bronze1; GRMZM2G165390

NCBI Protein Information

anthocyanidin 3-O-glucosyltransferase

UniProt Gene Name

BZ1

UniProt Synonym Gene Names

UGT71A1

UniProt Protein Name

Anthocyanidin 3-O-glucosyltransferase

UniProt Synonym Protein Names

Bronze-1; Bz-Mc2 allele; Flavonol 3-O-glucosyltransferase; UDP-glucose flavonoid 3-O-glucosyltransferase

UniProt Primary Accession

P16165

UniProt Related Accession

P16165; P16166; P16167

UniProt Comments

In the presence of other necessary color factors, this glycosylation reaction allows the accumulation of anthocyanin pigments.

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