

Dihydroflavonol-4-reductase (DFRA), Recombinant Protein

Cat RP01007

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 Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Dihydroflavonol-4-reductase (DFRA)

Product Gene Name

DFRA recombinant protein

Purity

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

Sequence

MVSQKETVCV TGASGFIGSW LVMRLLEGGY FVRATVRDPG NLKKVQHLLD LPNAKTLTLL WKADLSEEGS
YDDAINGCDG VFHVATPMD FESKDPENEVI KPTVNGMLGI MKACVKAKTV RRFVFTSSAG TVNVEEHQKN
VYDENDWSDL EFIMSKKMTG WMYFVSKTLA EKAAWDFAE E KGLDFISIIP TLVVGPFITT SMPPLITAL
SPITRNEAHY SIIRQGQYVH LDDLCNAHIF LYEQAAAKGR YICSSHDATI LTISKFLRPK YPEYNVPSTF
EGVDENLKSI EFSSKKLTDM GFNFKYSLEE MFIESIETCR QKGFLPVSL YQSISEIKTK NENIDVKTGD
GLTDGMKPCN KTETGITGER TDAPMLAQQM CA

Sequence Positions

1-382, 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

42,775 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.

Protein Family

Dihydrofolate reductase

NCBI Accession

NP_199094.1

NCBI GI

15239063

NCBI GenBank Nucleotide

NM_123645.4

NCBI GeneID

834291

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Dihydroflavonol-4-reductase (DFRA), Recombinant Protein

Cat *RP01007*

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 Official Full Name

dihydroflavonol 4-reductase

NCBI Official Symbol

DFR

NCBI Official Synonym Symbols

dihydroflavonol 4-reductase; DIHYDROFLAVONOL 4-REDUCTASE; DIHYDROKAEMPFEROL 4-REDUCTASE; M318; MJB21.18; MJB21_18; TT3

NCBI Protein Information

dihydroflavonol 4-reductase

NCBI Summary

dihydroflavonol reductase. Catalyzes the conversion of dihydroquercetin to leucocyanidin in the biosynthesis of anthocyanins. Not expressed in roots (qRT-PCR).

UniProt Gene Name

DFRA

UniProt Synonym Gene Names

DFR; TT3; FNR

UniProt Protein Name

Dihydroflavonol 4-reductase

UniProt Synonym Protein Names

Dihydrokaempferol 4-reductase; Flavanone 4-reductase (EC:1.1.1.234)

UniProt Primary Accession

P51102

UniProt Secondary Accession

Q9FEB1

UniProt Related Accession

P51102

UniProt Comments

Bifunctional enzyme involved in flavonoid metabolism.

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY