Malonyl-Coenzyme A:anthocyanin 3-O-Glucoside-6''-O-Malonyltransferase (3MAT) Dahlia Pinnata Recombinant Protein

PRODUCT OVERVIEW

Product Name	Malonyl-coenzyme A:anthocyanin 3-O-glucoside-6''-O-malonyltransferase (3MAT), Recombinant Protein
Full Product Name	Recombinant Dahlia pinnata Malonyl-coenzyme A:anthocyanin 3-O-glucoside-6''-O-malonyltransferase (3MAT)
Product Gene Name	3MAT recombinant protein
Product Synonym Names	Malonyl-coenzyme A:anthocyanin 3-O-glucoside-6''-O-malonyltransferase; Dv3MaT; Malonyl CoA:anthocyanin 3-O-glucoside-6''-O-malonyltransferase; EC=2.3.1.171
Sequence	MDNIPNLTIL EHSRISPPPS TIGHRSLPLT FFDIAWLLFP PVHHLYFYHF PYSKSHFTET VIPNLKHSLS ITLQHYFPFV GKLIVYPNPH DSTRKPEIRH VEGDSVALTF AETTLDFNDL SANHPRKCEN FYPLVPPLGN AVKESDYVTL PVFSVQVTYF PNSGISIGLT NHHSLSDANT RFGFLKAWAS VCETGEDQPF LKNGSPPVFD RVVVNPQLYE NRLNQTRLGT FYQAPSLVGS SSDRVRATFV LARTHISGLK KQVLTQLPML EYTSSFTVTC GYIWSCIVKS LVNMGEKKGE DELEQFIVSV GCRSRLDPPL PENYFGNCSA PCIVTIKNGV LKGENGFVMA AKLIGEGISK MVNKKGGILE YADRWYDGFK IPARKMGISG TPKLNFYDID FGWGKAMKYE VVSIDYSASV SLSACKESAQ DFEIGVCFPS MQMEAFGKIF NDGLESAIAS
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	51,302 Da
Sequence Positions	1-460aa; full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q8GSN8
Species	Dahlia pinnata (Pinnate dahlia) (Dahlia variabilis)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for 3MAT recombinant protein	MBS1343503 is a recombinant protein targeting 3MAT. Also known as Recombinant Dahlia pinnata Malonyl-coenzyme A:anthocyanin 3-O-glucoside-6''-O-malonyltransferase (3MAT). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of 3MAT recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for 3MAT. It may not necessarily be applicable to this product.

NCBI GI #	75150335
NCBI Accession #	Q8GSN8.1

UniProt Primary Accession #	Q8GSN8
NCBI Official Full Name	Malonyl-coenzyme A:anthocyanin 3-O-glucoside-6''-O-malonyltransferase
UniProt Protein Name	Malonyl-coenzyme A:anthocyanin 3-O-glucoside-6''-O-malonyltransferase
UniProt Gene Name	3MAT
UniProt Synonym Gene Names	Malonyl CoA:anthocyanin 3-O-glucoside-6''-O-malonyltransferase
UniProt Entry Name	3MAT_DAHPI
UniProt Comments for 3MAT	Catalyzes the transfer of the malonyl group from malonyl-CoA to pelargonidin 3-O-glucoside to produce pelargonidin 3-O-6''-O-malonylglucoside. Can also transfer the malonyl group from malonyl-CoA to cyanidin 3-O-glucoside, delphinidin 3-O-glucoside and quercetin 3-O-glucoside.
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