

NADP-dependent alkenal double bond reductase P1 (P1) Recombinant Protein | P1 recombinant protein

Recombinant Arabidopsis thaliana NADP-dependent alkenal double bond reductase P1 (P1)

CATALOG # AAA116638	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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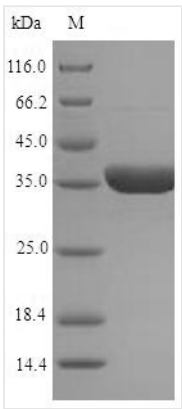
PRODUCT SYNONYMS

NADP-dependent alkenal double bond reductase P1 (P1); Recombinant Arabidopsis thaliana NADP-dependent alkenal double bond reductase P1 (P1); NADP-dependent alkenal double bond reductase P1; DBR1; EC=1.3.1.74; P1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-345aa; Full Length
Sequence	MTATNKQVIL KDYVSGFPTE SDFDFTTTTV ELRVPEGTNS VLVKNLYLSC DPYMRIRMGK PDPSTAALAQ AYTPGQPIQG YGVSRIIESG HPDYKKGDLL WGIVAWEEYS VITPMTHAHF KIQHTDVPLS YYTGLLGMPG MTAYAGFYEV CSPKEGETVY VSAASGAVGQ LVGQLAKMMG CYVVGSAAGS EKVDLLKTKF GFDDAFNYKE ESDLTAALKR CFPNGIDIYF ENVGGKMLDA VLVNMNMHGR IAVCGMISQY NLENQEGVHN LSNIIYKRIR IQGFVVSDFY DKYSKFLEFV LPHIREGKIT YVEDVADGLE KAPEALVGLF HGKNVGKQVV VVARE
Sequence Length	345
Species	Arabidopsis thaliana (Mouse-ear cress)
Production Note	Special Offer: The E. coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E. coli host-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E. coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E. coli host-expressed protein for the fastest delivery among all hosts. Please or email to for more details.
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.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for P1 recombinant protein	Catalyzes the reduction of the 7-8 double bond of phenylpropanal substrates, such as p-coumaryl aldehyde and coniferyl aldehyde (in vitro). Has activity towards toxic substrates, such as 4-hydroxy-(2E)-nonenal (in vitro). May play a distinct role in plant antioxidant defense and is possibly involved in NAD(P)/NAD(P)H homeostasis.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	15237888
NCBI GeneID	831560
NCBI Accession #	NP_197199.1
NCBI GenBank Nucleotide #	NM_121703.3
UniProt Accession #	Q39172
Molecular Weight	54.1 kDa
NCBI Official Full Name	2-alkenal reductase
NCBI Official Symbol	AER
NCBI Official Synonym Symbols	alkenal reductase; AT-AER; F2K13.120; F2K13_120
NCBI Protein Information	2-alkenal reductase
UniProt Protein Name	NADP-dependent alkenal double bond reductase P1
UniProt Gene Name	P1
UniProt Synonym Gene Names	DBR1
UniProt Entry Name	P1_ARATH

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.