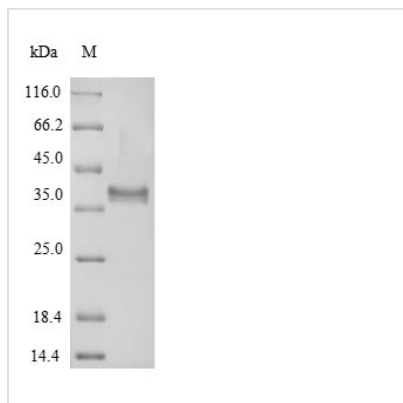




Recombinant *Arabidopsis thaliana* NADPH-dependent oxidoreductase 2-alkenal reductase (AER)

Product Code	CSB-EP654400DOAe1
Relevance	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.
Abbreviation	Recombinant Mouse-ear cress AER protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q39172
Product Type	Recombinant Protein
Immunogen Species	<i>Arabidopsis thaliana</i> (Mouse-ear cress)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	MTATNKQVILKDYVSGFPTESDFDFTTTTVELRVPEGTNSVLVKNLYLSCDPY MRIRMGKPDPTAALAQAAYTPGQPIQGYGVSRIIESGHPDYKKGDLLWGIVAW EEYSVITPMTHAHFKIQHTDVPLSYTGLLGMPGMTAYAGFYEVCSPEGETV YVSAASGAVGQLVGQLAKMMGCYVVGVSAGSKEKVDLLKTKFGFDDAFNYKE ESDLTAALKRCFPNGIDIYFENVGGKMLDAVLVNMNMHGRIAVCGMISQYNLE NQEGVHNLNIIYKRIRIQGFVVSDFYDKYSKFLEFVLPHIREGKITYVEDVADG LEKAPEALVGLFHGKNVGKQVVVVARE
Research Area	Others
Source	<i>E.coli</i>
Target Names	AER
Expression Region	1-345aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag-Free
Mol. Weight	38.1kDa
Protein Length	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.