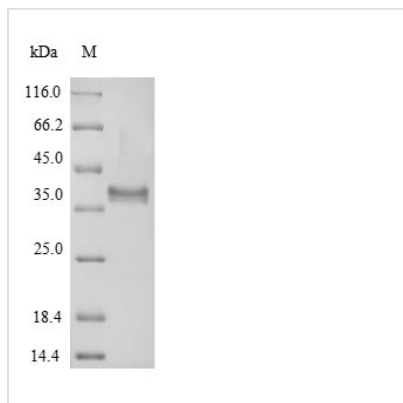




# Recombinant Arabidopsis thaliana NADPH-dependent oxidoreductase 2-alkenal reductase (AER)

<b>Product Code</b>	CSB-EP654400DOAe1
<b>Relevance</b>	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.
<b>Abbreviation</b>	Recombinant Mouse-ear cress AER protein
<b>Storage</b>	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.
<b>Uniprot No.</b>	Q39172
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Arabidopsis thaliana (Mouse-ear cress)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MTATNKQVILKDYVSGFPTESDFDFTTTTVELRVPEGTNSVLVKNLYLSCDPY MRIRMGKPD PSTAALAQAYTPGQPIQGYGVSRIIESGHPDYKKGDLLWGIVAW EEYSVITPMTHAHFKIQHTDVPLSYTGLLGMPGMTAYAGFYEVCSPEGETV YVSAASGAVGQLVGQLAKMMGCYVVGSGAGSKEKVDLLKTKFGFDDAFNYKE ESDLTAALKRCFPNGIDIYFENVGGKMLDAVLVNMNMHGRIAVCGMISQYNLE NQEGVHNSNIIYKRIRIQGFVVSDFYDKYSKFLEFVLPHIREGKITYVEDVADG LEKAPEALVGLFHGKNVGKQVVVVARE
<b>Research Area</b>	Others
<b>Source</b>	E.coli
<b>Target Names</b>	AER
<b>Expression Region</b>	1-345aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag-Free
<b>Mol. Weight</b>	38.1kDa
<b>Protein Length</b>	Full Length
<b>Image</b>	



(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

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