

Product datasheet

Recombinant *A. thaliana* NADPH-dependent oxidoreductase 2-alkenal reductase protein ab225591

Description

**Product name** Recombinant *A. thaliana* NADPH-dependent oxidoreductase 2-alkenal reductase protein

**Purity** > 90 % SDS-PAGE.

**Expression system** Escherichia coli

**Accession** [Q39172](#)

**Protein length** Full length protein

**Animal free** No

**Nature** Recombinant

**Species** Arabidopsis thaliana

**Sequence** MTATNKQVILKDYVSGFPTESDFDFTTTTVELRVPEGTNS  
 VLVKNLYLSC  
 DPYMRIRMGKPDSTAALAQAAYTPGQPIQGYGVSRIESGH  
 PDYKKGDLL  
 WGVAWEEYSVITPMTHAHFKIQHTDVPLSYTGLLGMPG  
 MTAYAGFYEV  
 CSPKEGETVYVSAASGAVGQLVGQLAKMMGCYVVGSA  
 SKEKVDLLKTKF  
 GFDDAFNYKEESDLTAALKRCFPNGIDIYFENVGGKMLDA  
 VLVNMMNHGR  
 IAVCGMISQYNLENQEGVHNSNIYKRIRIQGFVVSDFYDKY  
 SKFLEFV  
 LPHIREGKITYVEDVADGLEKAPEALVGLFHGKNVGKQVV  
 VVARE

**Predicted molecular weight** 38 kDa

**Amino acids** 1 to 345

Specifications

Our [Abpromise guarantee](#) covers the use of **ab225591** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** SDS-PAGE

**Form** Liquid

## Preparation and Storage

---

**Stability and Storage** Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.  
Constituents: 50% Glycerol (glycerin, glycerine), Tris buffer

## General Info

---

**Function** 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.

**Sequence similarities** Belongs to the NADP-dependent oxidoreductase L4BD family.

---

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

## Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

## Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors