

## 2-Cys Prx A Protein, Arabidopsis thaliana, Recombinant (His)

### General Information

Synonyms:	chloroplastic;BAS1;2-Cys peroxiredoxin BAS1, chloroplastic;Thiol-specific antioxidant protein A;2-Cys Prx A;Thioredoxin-dependent peroxiredoxin BAS1;2-Cys peroxiredoxin A
Protein Construction:	66-266 aa
Species:	Arabidopsis thaliana
Expression Host:	P. pastoris (Yeast)
Accession:	Q96291
Molecular Weight:	24.4 kDa (predicted)
AA Sequence:	KAQADDLPLVGNKAPDFEAEAVFDQEFIKVKLSDYIGKKYVILFFYPLDFTFVCPTEITAFSDRHSEFEKLNTEVL GVSVDVSVFSLAWVQTDRKSGGLGDLNYPLISDVTKSISKSGVLIHDQGIALRGLFIIDKEGVIQIHSTINNLGIG RSVDETMRTLQALQYIQENPDEVCPAGWKPGEKSMKPDPKLSKEYFSAI

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Thiol-specific peroxidase that catalyzes the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively. Plays a role in cell protection against oxidative stress by detoxifying peroxides. May be an antioxidant enzyme particularly in the developing shoot and photosynthesizing leaf.

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