

## L-ascorbate oxidase Protein, Cucurbita maxima, Recombinant (His &amp; SUMO)

## General Information

Synonyms: Ascorbase;ASO;AAO;L-ascorbate oxidase

Protein Construction: 31 - 579 aa

Species: Cucurbita maxima

Expression Host: E. coli

Accession: P24792

Molecular Weight: 74.3 kDa (predicted)

AA Sequence:

```
SQIRHYKWEVEYMFWAPDCNENIVMGINGQFPGP TIRANAGDTVVELINKLHTEGVVIHWHGILQRGTPWA  
DGTASISQCAINPGETFFYNTVDNPGTFFYHGHLMQRSAGLYGSLIVDPPQGKKEPFHYDGEINLLLSDW  
WHQSIHKQEVGLSSKPIRWIGEPQTILLNGRGQFDCSIAAKYDSNLEPCKLKGSEPCAPYIFHVMPKKT  
YRIRIA STTALAALNFAIGNHPLLVEADGNYVQPFYTS DIDIYSGESYSVLITTDQNPSENYWVSVGTRGR  
HPNTPPGL TLLNYLPNSVSKLPTSPPPETPAWDDFDRSKNFTYRITAAMGSPKPPVKSNRRIFLLNTQNV  
INGYVKWAIN D VSLALPPTPYLGAMKFNLLHAFDQNPPEVFPEDYDIDTPPTNEKTKIGNGVYQFKIGEIV  
DVLQANMMKE NLSEIHPWHLHGDFWVLGYGDGKFTAEESSLNLKNPPLRNTVVIFPYGWTAIRFVADNP  
GVWAFHCHIEP HLHMGMGVVF AEGVEKVGRIPTKALACGGTAKSLINNP
```

## 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

## A DRUG SCREENING EXPERT

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May be involved in a redox system involving ascorbic acid.

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