

# Recombinant human OAZ1 protein

Catalog Number: ATGP1694

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-228aa

### UniProt No.

P54368

### NCBI Accession No.

NP\_004143.1

### Alternative Names

Ornithine decarboxylase antizyme 1, AZI, OAZ

## PRODUCT SPECIFICATION

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### Molecular Weight

27.8 kDa (251aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Ornithine decarboxylase antizyme 1, also known as OAZ1, belongs to the ODC antizyme family. Its expression is auto-regulated by polyamine-enhanced translational frameshifting. OAZ1 negatively regulates polyamine synthesis by enhancing the negative feedback loop controlling ornithine decarboxylase (ODC) activity. The OAZ1 encoded by this gene inhibits ornithine decarboxylase and accelerates its degradation. Recombinant human OAZ1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MVKSSLQ RILNSHCFAR EKEGDKPSAT IHASRTMPLL SLHSRGGSSS  
ESSRVSLHCC SNPGPGPRWC SDAPHPPLKI PGGRGNSQRD HNLSANLFYS DDRLNVTEEL TSNDKTRILN VQSRLTDAKR  
INWRTVLSGG SLYIEIPGGA LPEGSKDSFA VLLEFAEEQL RADHVFCFH KNREDRAALL RTFSFLGFEI VRPGHPLVPK  
RPDACFMAYT FERESSGEEE E

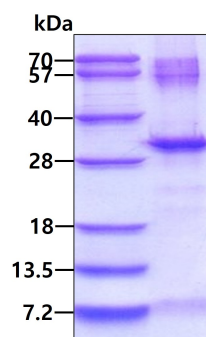
## General References

Zhang M., et al. (2003) EMBO J. 22: 1488-1496

Aoto H., et al. (1997) Genomics. 40: 138-141.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.