

# Recombinant e.coli ansA protein

Catalog Number: ATGP1077

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-338aa

### UniProt No.

P0A962

### NCBI Accession No.

NP\_416281

### Alternative Names

Cytoplasmic L-asparaginase I, ECK1765, JW1756

## PRODUCT SPECIFICATION

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### Molecular Weight

39.3 kDa (358aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT

### Purity

> 95% 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

AnsA is the cytoplasmic asparaginase from Escherichia coli involved in intracellular asparagine utilization. Escherichia coli possesses two l-asparaginases: the cytoplasmic type I form (ansA) and the periplasmic type II form (ansB). AnsA (Type I asparaginase) is constitutively expressed and required for the growth of the bacteria on asparagine as the sole nitrogen source. Recombinant E. coli ansA 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

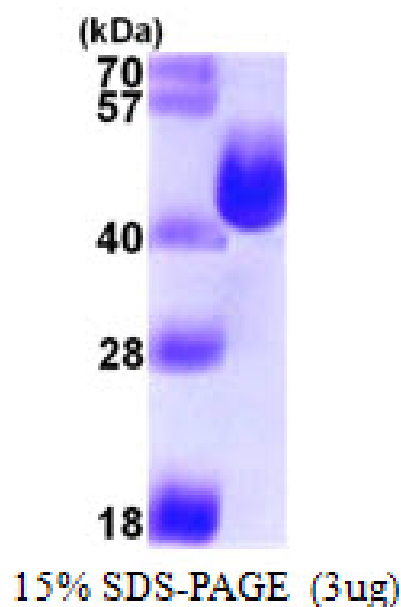
MGSSHHHHHH SSSLVPRGSH MQKKSIVVAY TGGTIGMQRS EQGYIPVSGH LQRQLALMPE FHRPEMPDFT IHEYTPLMDS  
SDMTPEDWQH IAEDIKAHYD DYDGFVILHG TDTMAYTASA LSFMLENLGK PVIVTGSQIP LAELRSDGQI NLLNALYVAA  
NYPINEVTLF FNNRLYRGNR TTKAHADGFD AFASPNLPL LEAGIHIRRL NTPPAPHGEG ELIVHPITPQ PIGVVTIYPG  
ISADVVRNFL RQPVKALILR SYGVGNAPQN KAFLQELQEA SDRGIVVVNL TQCMSGKVNMM GGYATGNALA HAGVIGGADM  
TVEATLTKLH YLLSQELDTE TIRKAMSQNL RGELTPDD

### General References

Cantor JR., et al. (2009) *Biochemistry*. 48(46):11026-31.  
Weidle uH., et al. (2009) *Anticancer Res*. 29(4):951-63.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.