

Recombinant E.coli ansA protein

Catalog Number: ATGP1077

PRODUCT INFORMATION

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

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

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

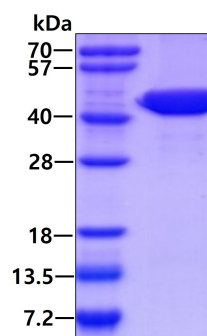
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IHEYTPLMDS SDMTPEDWQH IAEDIKAHYD DYDGFVILHG TDTMAYTASA LSFMLENLGK PVIVTGSQIP LAELRSDGQI
NLLNALYVAA NYPINEVTLF FNNRLYRGNR TTKAHADGFD AFASPNLPL LEAGIHIRRL NTPPAPHGEG ELIVHPITPQ
PIGVVTIYPG ISADVVRNFL RQPVKALILR SYGVGNAPQN KAFLQELQEA SDRGIVVVNL TQCMSGKVNMM 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.