

# Recombinant E.coli cytoplasmic L-asparaginase I, His-tagged

**Cat. No.** ansA-698E    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | ansA, 1-338aa, E.coli, His tag, E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 1-338 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | <p>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.</p> |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 2mM DTT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 39.3 kDa (358aa), confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | <p>MGSSHHHHHH SSGLVPRGSH MQKKSIVVAY TGGTIGMQRS EQGYIPVSGH<br/> LQRQLALMPE FHRPEMPDFT IHEYTPLMDS SDMTPEDWQH IAEDIKAHYD<br/> DYDGFVILHG TDTMAYTASA LSFMLENLGK PVIVTGSQIP LAELRSDGQI<br/> NLLNALYVAA NYPINEVTLF FNNRLYRGNR TTKAHADGFD AFASPNLPPL<br/> LEAGIHIRRL NTPPAPHGEG ELIVHPITPQ PIGVVTIYPG ISADVVRNFL</p>                                                                                                                                                                                                                                        |

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RQPVKALILR SYGVGNAPQN KAFLQELQEA SDRGIVVVNL TQCMMSGKVN  
GGYATGNALA HAGVIGGADM TVEATLTKLH YLLSQELDT TIRKAMSQNL  
RGELTPDD

**Purity** >95% by SDS - PAGE

**Storage** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [ansA](#) [cytoplasmic L-asparaginase I] [Escherichia coli str. K-12 substr. W3110]

**Official Symbol** ansA

**Synonyms** ansA; cytoplasmic L-asparaginase I; YP\_490028.1; ECK1765:JW1756:b1767

**Gene ID** [12930147](#)

**Protein Refseq** [YP\\_490028](#)

**UniProt ID** [AP\\_002386](#)

**Pathway** Alanine, aspartate and glutamate metabolism; Biosynthesis of secondary metabolites; Cyanoamino acid metabolism

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