

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

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

SPECIFICATION

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

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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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