

Product information

ansA, 1-338 aa

E.coli*, His-tagged, Recombinant, *E.coli

Cat. No. IBATGP1077

Full name: Cytoplasmic L-asparaginase I

NCBI Accession No.: NP_416281

Synonyms: ECK1765, JW1756.

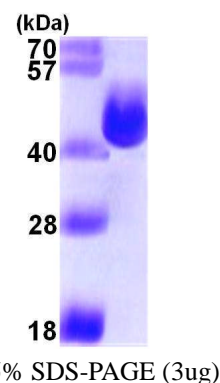
Description: AnsA is the cytoplasmic asparaginase from *Escherichia coli* involved in intracellular asparagine utilization. *Escherichia coli* possesses two L-asparaginases: the cytoplasmic type I form (ansA) and the periplasmic type II form (ansB). AnsA (Type I asparaginase) is constitutively expressed 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 Weight: 39.3 kDa (358aa), confirmed by MALDI-TOF

Purity: > 95 % by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MQKKSIVVAY TGGTIGMQRS EQGYIPVSGH LQRQLALMPE FHRPEMPDFT IHEYTPLMDS SDMTPEDWQH
 IAEDIKAHYD DYDGFVILHG TDTMAYTASA LSFMLENLGK PVIVTGSQIP LAELRSDGQI NLLNALYVAA NYPINEVTLF FNNRLYRGNR
 TTKAHADGFD AFASPNLPLP LEAGIHRRRL NTPPAPHGEG ELIVHPITPQ PIGVVTIYPG ISADVVRNFL RQPVKALILR SYGVGNAPQN
 KAFLQELQEA SDRGIVVVNL TQCMGKQVM 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.

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.