

ANSA E.coli

Description:ANSA produced in E.Coli is a single, non-glycosylated polypeptide chain containing 358 amino acids (1-338 a.a.) and having a molecular mass of 39.3kDa. ANSA is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #:ENPS-126

For research use only.

Synonyms:L-asparaginase 1, L-asparaginase I, L-ASNase I, L-asparagine amidohydrolase I, ansA, b1767, JW1756.

Source:Escherichia Coli.

Physical Appearance:Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MQKKSIVVAY TGGTIGMQRS
EQGYIPVSGH LQRQLALMPE FHRPEMPDFT IHEYTPLMDS SDMPEDWQH IAEDIKAHYD
DYDGFVILHG TDTMAYTASA LSFMLENLGK PVIVTGSQIP LAELRSDGQI NLLNALYVAA
NYPINEVTLF FNNRLYRGNR TTKAHADGFD AFASPNLPPL LEAGIHIRRL NTPPAPHGEG
ELIVHPITPQ PI

Purity:Greater than 95.0% as determined by SDS-PAGE.

Formulation:

The ANSA solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 2mM DTT.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

AnsA is a cytoplasmic asparaginase from E.coli involved in intracellular asparagine utilization. E.coli has 2 L-asparaginases: the cytoplasmic type I form (ansA) and the periplasmic type II form (ansB). AnsA (Type L asparaginase) is constitutively expressed and is obligatory for the growth of the bacteria on asparagine as the sole nitrogen source.

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