

## ASS1 Human

**Description:** ASS1 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 432 amino acids (1-412 a.a.) and having a molecular mass of 48.6 kDa. The ASS1 is fused to 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-555

For research use only.

**Synonyms:** ASS, CTLN1, EC 6.3.4.5, ASS1, Argininosuccinate Synthase 1.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MSSKGSVLA YSGGLDTSCI  
LVWLKEQGYD VIAYLANIGQ KEDFEEARKK ALKLGAKKVF IEDVSREFVE EFIWPAIQSS  
ALYEDRYLLG TSLARPCAR KQVEIAQREG AKYVSHGATG KGNDQVRFEL SCYSLAPQIK  
VIAPWRMPEF YNRFKGRNDL MEYAKQHGP IPVTPKNPWS MDENLMHISY EAGILENPKN  
QAPPGLYTKT QD

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

**Formulation:**

ASS1 Human 0.5mg/ml solution containing 20mM Tris-HCl pH-8, 0.1M NaCl, 1mM DTT & 20% glycerol.

**Stability:**

ASS1 Human although stable at 4°C for 1 week, should be stored desiccated below -18°C. Please prevent 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:**

ASS1 is involved in the urea cycle, which is a sequence of chemical reactions that is localized in liver cells. The urea cycle processes excess nitrogen that is generated as the body uses proteins. The surplus nitrogen is used to create a molecule called urea, which is excreted from the body in urine.

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