

Recombinant Human Argininosuccinate Synthase 1, His-tagged

Cat. No. ASS1-777H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant human ASS1 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques. MW =48.6 kDa (432aa) confirmed by MALDI-TOF.

Species

Human

Source

E.coli

Description

The ASS1 is an enzyme called argininosuccinate synthase 1. This enzyme participates in the urea cycle, which is a sequence of chemical reactions that takes place in liver cells. The urea cycle processes excess nitrogen that is generated as the body uses proteins. The excess nitrogen is used to make a compound called urea, which is excreted from the body in urine.

Sequences Of Amino Acids

MGSSHHHHHH SSGLVPRGSH MSSKGSVLA YSGGLDTSCI LVWLKEQGYD
 VIAYLANIGQ KEDFEEARKK ALKLGAKKVF IEDVSREFVEEFIWPAIQSS
 ALYEDRYLLG TSLARPCIR KQVEIAQREG AKYVSHGATG KGNDQVR FEL
 SCYSLAPQIK VIAPWRMPEF YNRFKGRNDL MEYAKQH GIP IPVTPKNPWS
 MDENLMHISY EAGILENPKN QAPPGLYTKT QDPAKAPNTP DILEIEFKKG
 VPVKVTNVKD GTTHQTSLELFMYLNEVAGK HGVGRIDIVE NRFIGMKSRG
 IYETPAGTIL YHAHLDIEAF TMDREVRKIK QGLGLKFAEL VYTGFWHSPE
 CEFVRH CIAK SQERVEGKVQ VSVLKGQVYI LGRESPLSLY NEELVSMNVQ
 GDYEPTDATG FININSLRLK EYHRLQSKVT AK

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Purity	> 90% by SDS – PAGE.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl,1mM DTT.
Concentration	0.5 mg/ml (determined by Bradford assay).
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.

GENE INFORMATION

Gene Name	ASS1 argininosuccinate synthase 1 [Homo sapiens]
Synonyms	ASS1; argininosuccinate synthase 1; ASS; CTLN1; argininosuccinate synthase; OTTHUMP00000022363; OTTHUMP00000022364; citrulline-aspartate ligase; citrulline--aspartate ligase; argininosuccinate synthetase 1; EC 6.3.4.5; argininosuccinate synthetase
Gene ID	445
mRNA Refseq	NM_000050
Protein Refseq	NP_000041
MIM	603470
UniProt ID	P00966
Chromosome Location	9q34.1

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Pathway

Alanine, aspartate and glutamate metabolism; Arginine and proline metabolism; Metabolic pathways

Function

ATP binding; argininosuccinate synthase activity; ligase activity; nucleotide binding; protein binding

PDB rendering based on 2nz2.

