

Recombinant Full Length Human ASS Protein, GST-tagged

Cat. No. ASS-1058HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ASS full-length ORF (AAH09243, 1 a.a. - 412 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	412 amino acids
Description	The protein encoded by this gene catalyzes the penultimate step of the arginine biosynthetic pathway. There are approximately 10 to 14 copies of this gene including the pseudogenes scattered across the human genome, among which the one located on chromosome 9 appears to be the only functional gene for argininosuccinate synthetase. Mutations in the chromosome 9 copy of this gene cause citrullinemia. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Aug 2012]
Molecular Mass	71.06 kDa
AA Sequence	MSSKGSVVLA YSGGLDTSCI FVWLKEQGYD VIAYLANIGQ KEDFEEARKK ALKLGAKKVF IEDVSREFVE EFIWPAIQSS ALYEDRYLLG TSLARPCIR KQVEIAQREG AKYVSHGATG KGNDQVRFEL SCYSLAPQIK VIAPWRMPEF YNRFKGRNDL MEYAKQHGIP IPVTPKNPWS MDENLMHISY EAGILENPKN QAPPGLYTKT QDPAKAPNTP DILEIEFKKG VPVKVTNVKD GTTHQTSLEL FMYLNEVAGK HGVGRIDIVE NRFIGMKSRG IYETPAGTIL YHAHLDIEAF

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TMDREVRKIK QGLGLKFAEL VYTGFWSPE CEFVRHCAK SQERVEGKVQ
VSVLKGQVYI LGRESPLSLY NEELVSMNVQ GDYEPTDATG FININSLRLK
EYHRLQSKVT AK

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

[ASS1 argininosuccinate synthase 1 \[Homo sapiens \(human\) \]](#)

Official Symbol

[ASS](#)

Synonyms

ASS1; ASS; CTLN1; argininosuccinate synthase 1; argininosuccinate synthase;
argininosuccinate synthetase 1; citrulline-aspartate ligase; EC 6.3.4.5

Gene ID

[445](#)

mRNA Refseq

[NM_000050](#)

Protein Refseq

[NP_000041](#)

MIM

[603470](#)

UniProt ID

[P00966](#)

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