

Recombinant Human ASS1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ASS1-2317H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ASS1 MS Standard C13 and N15-labeled recombinant protein (NP_446464) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	46.5 kDa
AA Sequence	MSSKGSVVLAYSGGLDTSCILVWLKEQGYDVIAYLANIGQKEDFEEARKKALKLGAK KVFIEDVSREFVEEFIWPAIQSSALYEDRYLLGTSLARPCIARKQVEIAQREGAKYVS HGATGKGNDQVRFELSCYSLAPQIKVIAPWRMPEFYNRFKGRNDLMEYAKQHGIPI PVTPKNPWSMDENLMHISYEAGILENPKNQAPPGLYTKTQDPAKAPNTPDILEIEFKK GVPVKVTNVKDGTTHTQTSLELFMYLNEVAGKHGTVGRIDIVENRFIGMKSRGIYETPA GTILYHAHLIDIEAFTMDREVRKIKQGLGLKFAELVYTGFWHSPECEFVRHCIAKSQER VEGKVQVSVLKGQVYILGRESPLSLYNEELVSMNVQGDYEPTDATGFININSLRLKE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

YHRLQSKVTAKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	ASS1 argininosuccinate synthase 1 [Homo sapiens (human)]
Official Symbol	ASS1
Synonyms	ASS1; argininosuccinate synthase 1; argininosuccinate synthetase, ASS; argininosuccinate synthase; CTLN1; citrulline-aspartate ligase; citrulline--aspartate ligase; argininosuccinate synthetase 1; ASS;
Gene ID	445
mRNA Refseq	NM_054012
Protein Refseq	NP_446464
MIM	603470

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UniProt ID P00966

SDS-PAGE



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