

Recombinant Full Length Human ASS1 Protein, C-Flag-tagged

Cat. No. ASS1-463HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ASS1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	46.3 kDa
AA Sequence	MSSKGSVVLAYSGGLDTSCILVWLKEQGYDVIAYLANIGQKEDFEEARKKALKLGAK KVFIEDVSREFVE EFIWPAIQSSALYEDRYLLGTSLARPCIARKQVEIAQREGAKYVS HGATGKGNDQVRFELSCYSLAPQIK VIAPWRMPEFYNRFKGRNDLMEYAKQHGIPI PVTPKPNWSDENLMHISYEAGILENPKNQAPPGLYTKT QDPAKAPNTPDILEIEFK KGVPVKVTNVKDGTTHQTSLELFMYLNEVAGKHGVGRIDIVENRFIGMKSRG IYETP AGTILYHAHLDIEAFTMDREVRKIKQGLGLKFAELVYTGFWHSPECEFVRHCIASQE RVEGKVQ

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	VSVLKGQVYILGRESPLSLYNEELVSMNVQGDYEPTDATGFININSLRLKEYHRLQSK VTAKTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

Gene Name	ASS1 argininosuccinate synthase 1 [Homo sapiens (human)]
Official Symbol	ASS1
Synonyms	ASS; CTLN1
Gene ID	445

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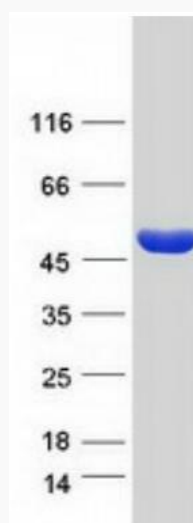
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mRNA Refseq [NM_000050.4](#)

Protein Refseq [NP_000041.2](#)

MIM [603470](#)

UniProt ID [P00966](#)



Coomassie blue staining of purified ASS1 protein.

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