

Active Recombinant Human ASS1 Protein (Full Length), N-6×His tagged

Cat. No. ASS1-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human ASS1 Protein (Full Length) with N-6×His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Full Length
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	Lyophilized
Bio-activity	The specific activity is 500 mU/mg based on its ability to convert citrulline to argininosuccinate.
Molecular Mass	50 kDa including tags
Purity	≥95% SDS-PAGE

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Applications	SDS-PAGE, Functional Studies
Storage	Store at -20 centigrade. Avoid freeze/thaw cycle.
Storage Buffer	0.38% Potassium phosphate, 0.46% Sodium chloride, 0.06% Tris HCl, 0.59% Potassium chloride, 0.018% (R*, R*)-1, 4-Dimercaptobutan-2, 3-diol, 0.07% EDTA, 0.107% Magnesium acetate, 1.2% BSA, 32% Trehalose, 9.6% Dextran, 1% Alcohol Ethoxylate
Reconstitution	Reconstitute the lyophilized protein in H ₂ O with concentration of 1.0 mU/mL. Incubate the reconstituted protein at 25 centigrade for 15 minutes.
Shipping	Shipped at 4 centigrade.

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_000050
Protein Refseq	NP_000041
MIM	603470

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UniProt ID

P00966

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