

Recombinant Human ASS1 Protein, His-tagged

Cat. No. ASS1-155H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ASS1(Met1-Lys412), transcript variant 1, fused with His tag at C-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Lys412
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	20mM Phosphate buffer, 150mM NaCl, 50mM Imidazole, 1mM DTT, 40% Glycerol, pH 7.5.
Molecular Mass	42.8 kDa
Endotoxin	< 0.1 EU per g protein as determined by LAL test
Purity	>95% as determined by SDS-PAGE and Coomassie blue staining

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Storage	Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
Concentration	>50 ug/mL as determined by microplate BCA method
GENE INFORMATION	
Gene Name	ASS1 argininosuccinate synthase 1 [Homo sapiens]
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
UniProt ID	P00966