

Recombinant Human ASS1, His-tagged

Cat. No. ASS1-30H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ASS1 (Met1-Lys412) fused with a 6His tag at the N-terminus, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-412 a.a.
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.
Formulation	Supplied as a 0.2 µM filtered solution of 20mM PB, 150mM NaCl, 50mM Imidazole, 1mM DTT, 40% Glycerol, pH 7.5
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Shipping	The product is shipped on dry ice/ice packs.
Endotoxin	Less than 0.1 ng/g (1 IEU/g).

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

Storage	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
OfficialSymbol	ASS1
GENE INFORMATION	
Gene Name	ASS1 argininosuccinate synthase 1 [Homo sapiens]
Synonyms	ASS1; argininosuccinate synthase 1; ASS; CTLN1; argininosuccinate synthase; OTTHUMP00000022363; OTTHUMP00000022364; citrulline-aspartate ligase; citrulline--aspartate ligase; argininosuccinate synthetase 1; EC 6.3.4.5; argininosuccinate synthetase
Gene ID	445
mRNA Refseq	NM_000050
Protein Refseq	NP_000041
MIM	603470
UniProt ID	P00966
Chromosome Location	9q34.1
Pathway	Alanine, aspartate and glutamate metabolism; Arginine and proline metabolism; Metabolism of amino acids and derivatives
Function	ATP binding; argininosuccinate synthase activity; protein binding; toxin binding

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PDB rendering
based on 2nz2.



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