Recombinant Active E. coli argG Protein (1-447), N-6×His-tagged

Cat. No. argG-12E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Active E. coli argG Protein with N-6×His tag was expressed in E. coli.
Species	E.coli
Source	E.coli
ProteinLength	1-447 (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 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 H2O with concentration of 1.0 mU/mL. Incubate the reconstituted protein at 25 centigrade for 15 minutes.
Shipping	Shipped at 4 centigrade. Store at -20 centigrade. Avoid freeze/thaw cycle.

GENE INFORMATION

Gene Name	argG argininosuccinate synthetase [Escherichia coli str. K-12 substr. MG1655]
Official Symbol	argG
Synonyms	argG; argininosuccinate synthetase; ECK3161
Gene ID	947590
Protein Refseq	NP_417640
UniProt ID	P0A6E4

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