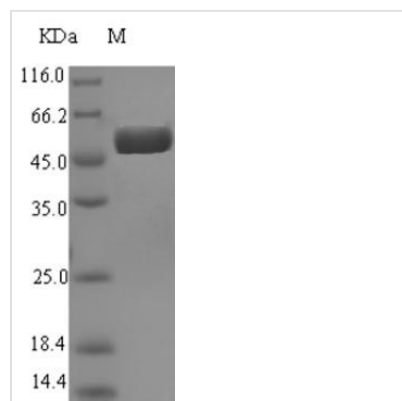




Recombinant Escherichia coli Agmatinase (speB)

Product Code	CSB-EP001447ENM
Relevance	Catalyzes the formation of putrescine from agmatine.
Abbreviation	Recombinant E.coli speB protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	B7LFJ6
Alias	Agmatine ureohydrolase Short name:AUH
Product Type	Recombinant Protein
Immunogen Species	Escherichia coli (strain 55989 / EAEC)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MSTLGHQYDNSLVSNAGFLRLPMNFQPYDSDADWVITGVPFDMATSGRAG GRHGPAAIRQVSTNLAWEHNRFPWNFDMRERLNVVDCGDLVYAFGDAREMS EKLQAHA EKLLAAGKRMLSFGGDHFVTLPLLRHAHAKHFGKMALVHFDAHTDTY ANGCEFDHGTMFYTAPKEGLIDPNHSVQIGIRTEFDIDNGFTVLDACQVND RS VDDVIAQVKQIVGDMPPVYLTFDIDCLDPAFAPGTGTPVIGGLTSDRAIKLVRGLK DLNIVGMDVVEVAPAYDQSEITALAAATLALEMLYIQA AKKGE
Research Area	Microbiology
Source	E.coli
Target Names	speB
Expression Region	1-306aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	49.5kDa
Protein Length	Full Length

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Description

Insertion of the gene encoding the Escherichia coli (strain 55989 / EAEC) speB protein (1-306aa) into a plasmid vector results in the formation of recombinant plasmid, which is then introduced into e.coli cells. Positive e.coli cells are selected relying on their ability to survive in the presence of a specific antibiotic. The e.coli cells containing the recombinant plasmid are cultured under conditions conducive to the expression of the gene of interest. A N-terminal 6xHis-SUMO tag is attached to the protein. Following expression, the recombinant Escherichia coli (strain 55989 / EAEC) speB protein is isolated and purified from the cell lysate through affinity purification. The resultant recombinant Escherichia coli (strain 55989 / EAEC) speB protein is analyzed using denaturing SDS-PAGE, revealing a purity greater than 90%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.