



Recombinant strain K12 speA Protein Product Manual

1. Product Basic Information

Product No.: REP08317

Protein Name: Biosynthetic Arginine Decarboxylase (speA)

Aliases: biosynthetic arginine decarboxylase

UniProt ID: P21170

UniProt Link: <https://www.uniprot.org/uniprotkb/P21170/entry>

Species Source: Escherichia coli (strain K12)

Expression System: E.coli

Protein Length: Partial (3-656aa)

Molecular Weight: 77.4kDa

Protein Tag: N-terminal 6xHis-tagged

2. Amino Acid Sequence (3-656aa)

DDMSMGLPSSAGEHGVLRSMQEVAMSSQEASKMLRITYNIAWWGNNYYDVNELG
HISVCPDPDVPEARVDLAQLVKTREAAQGGQRLPALFCFPQILQHRLRSINAFAFKRARE
SYGYNGDYFLVYPIKVNQHRRVIESLIHSGEPLGLEAGSKAELMAVLAHAGMTRSVI
VCNGYKDREYIRLALIGEKMGGKVVYLVIEKMSEIAIVLDEAERLNVPRLGVRARLAS
QGSQGWQSSGGEKSKFGLAATQVLQLVETLREAGRLDSLQLLHFHLGSQMANIRDI
ATGVRESARFYVELHKLGVNIQCFDVGGLGVDYEGTRSQSDCSVNYGLNEYANN
IIWAIGDACEENGLPHPTVITESGRAVTAHHTVLVSNIIIGVERNEYTVPTAPAEDAPR
ALQSMWETWQEMHEPGTRRSLREWLHDSQMDLHDIHIGYSSGIFSLQERAWAEQ
LYLSMCHEVQKQLDPQNRHRPIIDELQERMADKMYVNFSLFQSMPDAWGIDQLF
PVLPLEGLDQVPERRAVLLDITCSDGAIHDYIDGDGIATTMPMPEYDPENPPMLGF
FMVGAYQEILGNMHNLFGDTEAVDVFVFPDGSVEVELSDEGDTVADMLQYVQLDP
KTLTQFRDQVKKTDLDAELQQQFLEEFEGLYGYTYLE

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).



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Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant strain K12 speA partial protein (3-656aa) expressed in E.coli. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. speA, also known as biosynthetic arginine decarboxylase, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.