

Recombinant E.coli tnaA protein

Catalog Number: ATGP2963

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-471aa

UniProt No.

P0A853

NCBI Accession No.

NP_418164

Alternative Names

Tryptophanase/L-cysteine desulfhydrase PLP-dependent, Tryptophanase/L-cysteine desulfhydrase, PLP-dependent, Tryptophanase

PRODUCT SPECIFICATION

Molecular Weight

55.2 kDa (494aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

tnaA, also known as Tryptophanase/L-cysteine desulfhydrase. Tryptophanase is an enzyme that catalyzes the chemical reaction. Thus, the two substrates of this enzyme are L-tryptophan and H₂O, whereas its 3 products are indole, pyruvate, and NH₃. Recombinant E. coli tnaA, fused to His-tag at N-terminus, was expressed in E. coli and purified using conventional chromatography techniques.

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Amino acid Sequence

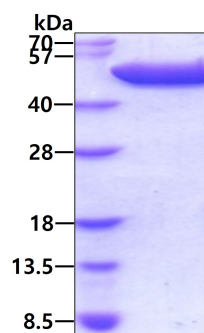
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TTQGHSQING CTVRNVIKE AFDTGVRYDF KGNFDLEGLE RGIEEVGPNN VPIYVATITS NSAGGQPVSL ANLKAMYSIA
KKYDIPVVMD SARFAENAYF IKQREAEYKD WTIEQITRET YKYADMLAMS AKKDAMVPMG GLLCMKDDSF FDVYTECTRL
CVVQEGFPTY GGLEGGAMER LAVGLYDGMN LDWLAYRIAQ VQYLVGLEE IGVVCQQAGG HAAFVDAGKL LPHIPADQFP
AQALACELYK VAGIRAVEIG SFLGRDPKT GKQLPCPAEL LRLTIPRATY TQTHMDFIIE AFKHVKENAA NIKGLTFTYE
PKVLRHFTAK LKEV

General References

Tokushige M., et al. (1989) Biochimie 71:711-720

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.