

Recombinant Escherichia coli CYAA Protein (1-848 aa), His-tagged

Cat. No. CYAA-2737E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Escherichia coli (strain K12) CYAA Protein (1-848 aa) is produced by in vitro E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length.
Species	E.coli
Source	E.coli
ProteinLength	1-848 aa
Description	Catalyzes the formation of the second messenger cAMP from ATP. Its transcript is probably degraded by endoribonuclease LS (rnIA), decreasing cAMP levels and the negative regulator Crp-cAMP, which then induces its own transcription again.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	99.9 kDa
AA Sequence	LYL IETLKQRLDAINQLRVDRALAAMGPAFQQVYSLPTLLHYHHPLMPGYLDGNV PKGICLYTPDETQRHYLNELELYRGMSVQDPPKGELPITGVYTMGSTSSVGQSCSS DLDI WVCHQSWLDSEERQLLQRKCSLLENWAASLGVEVSFFLIDENRFRHNESGSL GGEDCGSTQHILLLDEFYRTAVRLAGKRILWNMVP CDEEEHYDDYVMTLYAQGVLT PNEWLDLGGGLSSLSAEEYFGASLWQLYKSIDSPYKAVLKTLLLEAYSWEYPNPRLLA KDIKQRLHDGEIVSFGLDPYCMMLERVTEYLTAIEDFTRLDLVRRCFYLVKCEKLSRE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

RACVGWRRAVLSQLVSEWGWDEARLAMLDNRANWKIDQVREAHNELLDAMMQSY
 RNLIRFARRNNLSVSASPQDIGVLTRKLYAAFEALPGKVTLVNPQISPDLSEPNLTFIY
 VPPGRANRSGWYLYNRAPNIESIISHQPLEYNRYLNKLVAAWAFNGLLTSRTRLIYK
 GNGIVDLPKLQEMVADVSHHFPLRLPAPTPKALYSPCEIRHLAIIVNLEYDPTAAFRN
 QVVHFD FRKLDVFSFGENQNCLVGSVDLLYRNSWNEVRTLHFNGEQSMIEALKTIL
 GKM HQDAAPPDSVEVFCYSQHRLRGLIRTRVQQLVSECIELRLSSTRQETGRFKALR
 VSGQ TWGLFFERLNVSVQKLENAIEFYGAISHNKLHGLSVQVETNHVKLPAVVDGFA
 SEGIIQFFFEETQDENGFNIIYILDESNRVEVYHHCEGSKEELVRDVSRYSSSHDRFT
 YGSSFINFNLPQFYQIVKVDGREQVIPFRTK SIGNMPPANQDHDTPLLQQYFS

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

Gene Name *cyaA* adenylate cyclase [*Escherichia coli* str. K-12 substr. MG1655]

Official Symbol *CYAA*

Synonyms *cyaA*; *cya*; ECK3800;

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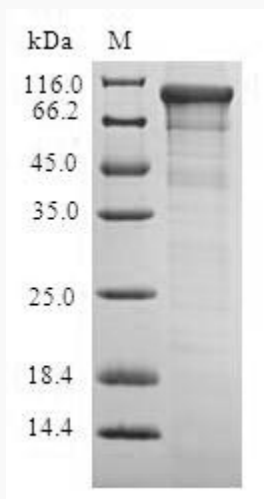
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Gene ID 947755

Protein Refseq NP_418250

UniProt ID P00936



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

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