

Adenylate cyclase Protein, E. coli, Recombinant (His)

General Information

Synonyms: ATP pyrophosphate-lyase;cya;Adenylyl cyclase;cyaA;Adenylate cyclase

Protein Construction: 1-848 aa

Species: E. coli

Expression Host: E. coli

Accession: P00936

Molecular Weight: 99.9 kDa (predicted)

AA Sequence: MYLYIETLKQRDLAINQLRVDRALAAMGPAFQQVYSLLPTLLHYHHPLMPGYLDGNVPGKICLYTPDETQRHY
LNELELYRGM SVQDPPKGELPITGVYTMGSTSSVGQSCSSDLI WVCHQSWLDSEERQLLQRKCSLENWAA
SLGVEVSFFLIDENRFRHNESGSLGGEDCGSTQHILLDEFYRTAVRLAGKRILWNMVP CDEEEHYDDYVMTL
YAQGVLT PNEWLDLGGLSLSAEEYFGASLWQLYKSIDSPYKAVLKTLLLEAYSWEYPNPRLLAKDIKQRLHD
GEIVSFGLDPYCMMLERVTEYLTAIEDFTRLDLVRRFCYLVKCEKLSRERACVGRRAVLSQLVSEWGWDEAR
LAMLNDRANWKIDQVREAHNELLDAMMQSYRNLRIRFARRNNLSVSASPQDIGVLRKLYAAFEALPGKVTLV
NPQISPDLSEPNLTFIYVPPGRANRSGWYLYNRPNIESIISHQPLEYNRYLNKLVAWAWFNGLLTSRTRLYIK
GNGIVDLPKLQEMVADVSHHFPLRLPAPT PKALYSPCEIRHLAIIVNLEYDPTAAFRNQVVHFD FRKLDVFSFG
ENQNCLVGSVDLLYRNSWNEVRTLHFNGEQSMIEALKITLGMKHQDAAPPDSVEVFCYSQHRLRGLIRTRVQQ
LVSECIELRLSSTRQETGRFKALRVSGQTWGLFFERLNVSVQKLENAIEFYGAISHNKLHGLSVQVETNHVKLP
AVVDGFASEGIIQFFFEETQDENGFN IYILDESNRVEVYHHCEGSKEELVRDVSRYSSSHDRFTY GSSFINFNL
PQFYQIVKVDGREQVIPFRTKSIGNMPPANQDHDTPLLQYFS

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Lyophilized from Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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.

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