

GAD-alpha Protein, E. coli, Recombinant (His)

General Information

Synonyms: gadA;gadS;GAD-alpha;Glutamate decarboxylase alpha

Protein Construction: 1-466 aa

Species: E. coli

Expression Host: E. coli

Accession: P69908

Molecular Weight: 56.7 kDa (predicted)

AA Sequence: MDQKLLTDFRSELLDSRFGAKAISTIAESKRFLHEMRDDVAFQIINDELYLDGNARQNLATFCQTWDDENVH
KLMDSLKNKWNIDKEEYPQSAAILRVCNMVADLWHAPAPKNGQAVGTNTIGSSEACMLGGMAMKWRWR
KRMEAAGKPTDKPNLVCGPVQICWHKFARYWDVELREIPMRPGQLFMDPKRMIEACDENTIGVVPTFGVTYT
GNYEFPQPLHDALDKFQADTGIDIDMHIDAASGGFLAPFVAPDIVWDFRLPRVKSISASGHKFG LAPLGCGW
VIWRDEEALPQELVFNVDYLGGQIGTFAINFSRPAGQVIAQYYEFLRLGREGYTKVQNASYQVAAYLADEIAKL
GPYEFICTGRPDEGIPAVCFKLDGEDPGYTYLDSLRLRGWQVPAFTLGGEATDIVVMRIMCRRGFEMDF
AELLEDDYKASLKYLSDHPKLGIAQQNSFKHT

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: Tris-based buffer, 50% glycerol

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

A DRUG SCREENING EXPERT

Converts glutamate to gamma-aminobutyrate (GABA), consuming one intracellular proton in the reaction. The gad system helps to maintain a near-neutral intracellular pH when cells are exposed to extremely acidic conditions. The ability to survive transit through the acidic conditions of the stomach is essential for successful colonization of the mammalian host by commensal and pathogenic bacteria.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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