

Recombinant Escherichia coli GADA Protein (1-466 aa), His-tagged

Cat. No. GADA-859E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Escherichia coli (strain K12) GADA Protein (1-466 aa) is produced by 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	1-466 aa
Description	Converts glutamate to gamma-aminobutyrate (GABA), consuming one intracellular proton in the reaction. The gad syst helps to maintain a near-neutral intracellular pH when cells are exposed to extrely 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.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	56.7 kDa
AA Sequence	MDQKLLTDFRSELLDSRFGAKAISTIAESKRFLHEMRDDVAFQIINDELYLDGNARQ NLATFCQTWDDENVHKLMDLSINKNWIDKEEYPQSAAIDLRCVNMVADLWHAPAPK NGQAVGTNTIGSSEACMLGGMAMKWRWRKRMEAAGKPTDKPNLVCGPVQICWHK FARYWDVELREIPMRPGQLFMDPKRMIEACDENTIGVVPTFGVTTYTGNYEFPQPLH

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DALDKFQADTGIDIDMHIDAASGGFLAPFVAPDIVWDFRLPRVKSISASGHKFGLAPL
GCGWVIWRDEEALPQELVFNVDYLGGQIGTFAINFSRPAQVIAQYYEFLRLGREGY
TKVQNASYQVAAYLADEIAKLGPYEFICTGRPDEGIPAVCFKLKDGEDPGYTLYDLSE
RLRLRGWQVPAFTLGGEATDIVVMRIMCRRGFEMDFAELLLEDYKASLKYLSDHPKL
QGIAQQNSFKHT

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 with concentration instruction is sent along with the products.

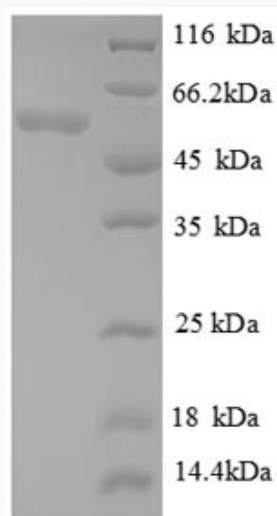
GENE INFORMATION

UniProt ID [P69908](#)

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

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