

Recombinant Escherichia coli Glutamate decarboxylase alpha(gadA)

Catalog No: #AP70946

Package Size: #AP70946-1 20ug #AP70946-2 100ug #AP70946-3 1mg

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Description

Product Name	Recombinant Escherichia coli Glutamate decarboxylase alpha(gadA)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-466aaSequence Info:Full Length
Accession No.	P69908
Calculated MW	56.7 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MDQKLLTDFRSELLDSRFGAKAISTIAESKRFLHEMRDDVAFQIINDELYLDGNARQNLATFCQTWDDENVHK LMDLSINKNWIDKEEYPQSAADLRCVNMVADLWHAPAPKNGQAVGTNTIGSSEACMLGGMAMKWRWRKRM EAAGKPTDKPNLVCGPVQICWHKFARYWDVELREIPMRPGQLFMDPKRMIEACDENTIGVVPTFGVITYTGN EFPQPLHDALDKFQADTGIDIDMHIDAASGGFLAPFVAPDIVWDFRLPRVKSISASGHKFGGLAPLGCWVIWRD EEALPQELVFNVGYLGGQIGTFAINFSRPAGQVIAQYYEFLRLGREGYTKVQNASYQVAAYLADEIAKLGPEYFI CTGRPDEGIPAVCFKLKDGEDPGYTYDLSERLRLRGWQVPAFTLGGEATDIVVMRIMCRRGFEMDFAEALLLE DYKASLKYLSDHPKLQGIAQQNSFKHT
Formulation	Tris-based buffer50% glycerol
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°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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 extrey 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.

References

Transcriptional expression of Escherichia coli glutamate-dependent acid resistance genes gadA and gadBC in an hns rpoS mutant.Waterman S.R., Small P.L.C.J. Bacteriol. 185:4644-4647(2003)Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.