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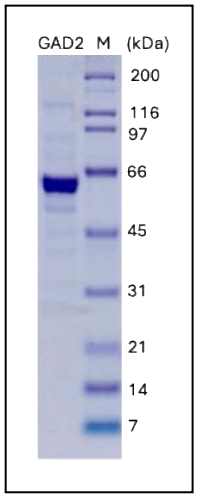
Catalog Number	Size
AG335-10	10ug
AG335-25	25ug
AG335-B	Bulk

Glutamate Decarboxylase 2

Description

Recombinant human Glutamate Decarboxylase 2 (GAD2) was expressed in the baculovirus system and purified by an affinity column in combination of other chromatograph methods. The resulted protein is a monomeric polypeptide of 600 (15+585) amino acids with a 6His tag at the N-terminus. It migrates in SDS-PAGE with an apparent molecular mass of 64kDa



MHHHHHHGRRASVLEMASPGSGFWSFGSEDGSGDSENPGTARAWCQVAQK
FTGGIGNKLCALLYGDAEKPAESGGSQPPRAAARKAACACDQKPCSCSKV
DVNYAFLHATDLLPACDGERPTLAFLQDVMNILLQYVVKSFDRSTKVIDF
HYPNELLQEYNWELADQPQNLEEILMHCQTTLKYAIKTGHPRYFNQLSTG
LDMVGLAADWLTSTANTNMFTYEIAPVFVLLEYVTLKKMREIIGWPGGSG
DGIFSPGGAISNMYAMMIARFKMFPEVKEKGMAALPRLIAFTSEHSHFSL
KKGAAALGIGTDSVILIKCDERGKMIPSDLERRILEAKQKGFVPFLVSAT
AGTTVYGAFDPLLAVADICKKYKIWMHVDAAWGGGLLMSRKHKWKLSGVE
RANSVTWNPHKMMGVPLQCSALLVREEGLMQNCNQMHASYLFQQDKHYDL
SYDTGDKALQCGRHVDVFKLWLMWRAKGTTGFEAHVDKCLELAEYLYNII
KNREGYEMVFDGKPQHTNVCFWYIPPSLRTLEDNEERMSRLSKVAPVIKA

Accession Number NM_000818

Molecular Mass Approximately 64kDa.

Purity ≥90%, as determined by SDS-PAGE.

Biological Activity GAD2 is one of the several forms of glutamic acid decarboxylase that identified as a major autoantigen to insulin-dependent diabetes. Recombinant human GAD2 protein is suitable for the studies of its pathogenic roles involved in insulin-dependent diabetes, stiff man syndrome and others.

Formulation 20mM Tris-Cl (pH7.9), 20% glycerol 100mM NaCl, 1mM DTT and 1mM EDTA.

Storage The protein sample can be stored under sterile conditions at 2-8ºC for one month or at -20ºC to -70ºC for three months without detectable loss of activity. ***(Avoid repeated freeze-thaw cycle)***

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