

Recombinant Mouse GAD2 Protein, His-tagged

Cat. No. GAD2-28M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse GAD2 Protein, fused to His-tag, was expressed in E. coli.
Species	Mouse
Source	E.coli
Description	Predicted to enable glutamate binding activity; glutamate decarboxylase activity; and pyridoxal phosphate binding activity. Predicted to be involved in glutamate decarboxylation to succinate. Predicted to act upstream of or within neurotransmitter biosynthetic process. Located in axon; cytoplasm; and synapse. Is expressed in several structures, including genitourinary system; gut; heart; nervous system; and sensory organ. Used to study epilepsy and type 1 diabetes mellitus. Human ortholog(s) of this gene implicated in gestational diabetes; schizophrenia; and type 1 diabetes mellitus. Orthologous to human GAD2 (glutamate decarboxylase 2).
Form	50mM Tris, 300mM NaCl, 0.05% SKL, pH 8.0.
Molecular Mass	67 kDa
AA Sequence	MGSSHHHHHHSSGLVPRGSHMASPGSGFWSFGSEDGSADPENPGTARAWCQVA QKFTGGIGNKLCALLYGDSGKPAEGGGSVTSRAATGKVACTCDQKPCNCPKGDVN YAFLHATDLLPACDGERPTLAFLQDVMNILLQYVVKSFDRSTKVIDFHYPNELLQEYN WELADQPQNLEELTHCQTTLKYAIKTGHPRYFNQLSTGLDMVGLAADWLTSTANTN MFTYEIAPVFVLLLEYVTLKKMREIIGWPGGSGDGIFSPGGAISNMYAMLIARYKMFPE VKEKGMAAVPRLIAFTSEHSHFSLKKGAAALGIGTDSVILIKCDERGKMIPSDLERRIL

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EVKQKGFVPFLVSATAGTTVYGAFDPLLAVADICKKYKIWMHVDAAWGGGLLMSRK
 HKWKLSGVERANSVTWNPHKMMGVPLQCSALLVREEGLMQSCNQMHASYLFQQD
 KHYDLSYDTGDKALQCGRHVDVFKLWLMWRAKGGTGFSAHIDKCLELAELYTIKN
 REGYEMVFDGKPKQHTNVCFWFVPPSLRTLEDNEERMSRLSKVAPVIKARMMMEYGT
 TMVSYQPLGDKVNFFRMVISNPAATHQDIDFLIEEIERLGQDL

Endotoxin 1EU/ug by LAL.

Purity >90%

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 0.32 mg/ml

GENE INFORMATION

Gene Name [Gad2 glutamic acid decarboxylase 2 \[Mus musculus \(house mouse\) \]](#)

Official Symbol [GAD2](#)

Synonyms GAD65; Gad-2; GAD(65); 6330404F12Rik

Gene ID [14417](#)

mRNA Refseq [NM_008078](#)

Protein Refseq [NP_032104](#)

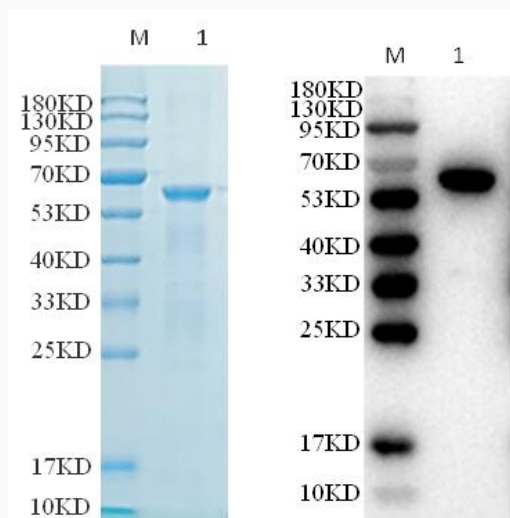
UniProt ID [P48320](#)

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SDS-PAGE



Reducing 12% SDS-PAGE and WB analysis profile of purified GAD2(CBB stained).

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