

Human Glutamate Decarboxylase 2 (GAD2) Protein

Catalogue No.:abx066816



SDS-PAGE analysis of Human GAD2 Protein.

Recombinant Glutamate Decarboxylase 2 (GAD2) is a recombinant Human protein produced in a Prokaryotic expression system (E. coli). This gene encodes one of several forms of glutamic acid decarboxylase, identified as a major autoantigen in insulin-dependent diabetes. The enzyme encoded is responsible for catalyzing the production of gamma-aminobutyric acid from L-glutamic acid. A pathogenic role for this enzyme has been identified in the human pancreas since it has been identified as an autoantibody and an autoreactive T cell target in insulin-dependent diabetes. This gene may also play a role in the stiff man syndrome. Alternative splicing results in multiple transcript variants that encode the same protein.

Target:	Glutamate Decarboxylase 2 (GAD2)
Origin:	Human
Expression:	Recombinant
Tested Applications:	WB, SDS-PAGE
Host:	E. coli
Conjugation:	Unconjugated
Form:	Lyophilized
Purity:	> 98%
Reconstitution:	To keep the original salt concentration, we recommend reconstituting to the original concentration prior to lyophilization (see Concentration) in ddH_2O . If a lower concentration is required, dilute in 20 mM Tris, 150 mM NaCl, pH 8.0. If a higher concentration is required, the product can be reconstituted directly in 20 mM Tris, 150 mM NaCl, pH 8.0, though please note that this will change the overall salt concentration. The stock concentration should be between 0.1-1.0 mg/ml. Do not vortex.
Storage:	Store at 2-8 °C for up to one month. Store at -80 °C for up to one year. Avoid repeated freeze/thaw cycles.
UniProt Primary AC:	Q05329 (<u>UniProt</u> , <u>ExPASy</u>)



KEGG:	hsa:2572
String:	<u>9606.ENSP00000365437</u>
Molecular Weight:	Calculated MW: 34.4 kDa Observed MW: 34 kDa (determined by SDS-PAGE)
Sequence Fragment: Arg65-Arg105	
Sequence:	RAAARK AACACDQKPC SCSKVDVNYA FLHATDLLPA CDGER
Tag:	N-terminal His tag and GST tag
Buffer:	Prior to lyophilization: 20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01% Sarcosyl, 5% Trehalose and Proclin-300.
Activity:	Not tested
Concentration:	Prior to lyophilization: 200 µg/ml
Note:	This product is for research use only. Not for human consumption, cosmetic, therapeutic or diagnostic use.