



# Recombinant Mouse Glutamate decarboxylase 2 (Gad2)

<b>Product Code</b>	CSB-BP009160MO
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P48320
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>MASPGSGFWS FGSEDGSADP ENPGTARAWC QVAQKFTGGI  GNKLCALLYG DSGKPAEGGG SVTSRAATGK VACTCDQKPC  NCPKGDVNYA FLHATDLLPA CDGERPTLAF LQDVMNILLQ YVVKSFDRST  KVIDFHYPNE LLQEYNWELA DQPQNLEEIL THCQTTLKYA IKTGHPRYFN  QLSTGLDMVG LAADWLTSTA NTNMFYEIA PVFVLELEYVT LKKMREIIGW  PGGSGDGIFS PGGAISNMYA MLIARYKMFP EVKEKGMAAV PRLIAFTSEH  SHFSLKKGAA ALGIGTDSVI LIKCDERGMK IPSDLERRIL EVKQKGFVPF  LVSATAGTTV YGAFDPLLAV ADICKKYKIW MHVDAAWGGG LLMSRKHKWK  LSGVERANSV TWNPHKMMGV PLQCSALLVR EEGLMQSCNQ  MHASYLFQQD KHYDLSYDTG DKALQCGRHV DVFKLWLMWR  AKGTTGFEAH IDKCLELAEY LYTIKNREG YEMVFDGKPQ HTNVCFWFVP  PSLRTLEDNE ERMSRLSKVA PVIKARMM EY GTTMVSYQPL GDKVNFFRMV  ISNPAATHQD IDFLIEEIER LGQDL</p>
<b>Source</b>	Baculovirus
<b>Target Names</b>	Gad2
<b>Protein Names</b>	Recommended name: Glutamate decarboxylase 2 EC= 4.1.1.15 Alternative name(s): 65 kDa glutamic acid decarboxylase Short name= GAD-65 Glutamate decarboxylase 65 kDa isoform
<b>Expression Region</b>	1-585
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	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.



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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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.