



Recombinant Mouse Glutamate decarboxylase 2 (Gad2)

Product Code	CSB-EP009160MO-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P48320
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	>85% (SDS-PAGE)
Sequence	<p>MASPGSGFWS FGSEDGSADP ENPGTARAWC QVAQKFTGGI GNKLCALLYG DSGKPAEGGG SVTSRAATGK VACTCDQKPC NCPKGDVNYA FLHATDLLPA CDGERPTLAF LQDVMNILLQ YVVKSFDRST KVIDFHYPNE LLQEYNWELA DQPQNLEEIL THCQTTLKYA IKTGHPRYFN QLSTGLDMVG LAADWLTSTA NTNMFYEIA PVFVLEUYVT 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 PVIKARMMY GTTMVSYQPL GDKVNFFRMV ISNPAATHQD IDFLIEEIER LGQDL</p>
Source	E.coli
Target Names	Gad2
Protein Names	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
Expression Region	1-585
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	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.



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.

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.