



Recombinant Rat Glutaminase liver isoform, mitochondrial (Gls2)

Product Code	CSB-MP009529RA
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P28492
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥85% (SDS-PAGE)
Sequence	GSHGQR GGWGHPSRGP LLGGGVRYFF GEAAAQGRGT PSHSQPQHSD HDASNSGMLP RLGDLLFYTI AEGQERIPHI KFTTALKATG LQTSDPRLQD CMSKMQRMVQ ESSSGLLDR ELFQKCVSSN IVLLTQAFRK KFVIPDFEEF TGHVDRIFED AKELTGGKVA AYIPHLAKSN PDLWGVSLCT VDGQRHSVGH TKIPFCLQSC VKPLTYAISV STLGTDYVHK FVGKEPSGLR YNKLSLNEEG IPHNPMVNAG AIVVSSLIKM DCNKA EKDFD VLQYLNKMAG NEFMGFSNAT FQSEKETGDR NYAIGYYLKE KKCFCPKGVDM MAALDLYFQL CSVEVTCEG SVMAATLANG GICPITGESV LSAEAVRNTL SLMHSCGMYD FSGQFAFHVG LPAKSAVSGA ILLVVPNVMG MMCLSPPLDK LGNSHRGISF CQKLVSLFNF HNYDNLRHCA RKLDP RREGG EVRNKTVVNL LFAAYSGDVS ALRRFALSAV DMEQKDYDSR TALHVAAAEG HIDVVKFLIE ACKVNPVFKD RWGNIPLDDA VQFNHLEVVK LLQDYHDSYM LSETQAEVAA ETLKENLES MV
Source	Mammalian cell
Target Names	Gls2
Protein Names	Recommended name: Glutaminase liver isoform, mitochondrial Short name= GLS EC= 3.5.1.2 Alternative name(s): L-glutaminase L-glutamine amidohydrolase
Expression Region	15-602
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 of Mature Protein
Target Details	This protein is a mitochondrial phosphate-activated glutaminase that catalyzes the hydrolysis of glutamine to stoichiometric amounts of glutamate and ammonia. This protein is functionally similar to the kidney glutaminase but is a little smaller in size. Originally thought to be liver-specific, this protein has been found in other tissues as well. At least one transcribed pseudogene has been found for this gene.
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.