



# Recombinant Rat Glutaminase liver isoform, mitochondrial (Gls2)

<b>Product Code</b>	CSB-BP009529RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P28492
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	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 CSVEVTCESG SVMAATLANG GICPITGESV LSAEAVRNTL SLMHSCGMYD FSGQFAFHVG LPAKSAVSGA ILLVVPNVMG MMCLSPPLDK LGNSHRGISF CQKLVSLFNF HNYDNLRHCA RKLDP RREGG EVRNKTVVNL LFAAYSGDVS ALRRFALSAV DMEQKDYDSR TALHVAAAEG HIDVVKFLIE ACKVNP FVKD RWGNIP LDDA VQFNHLEVVK LLQDYHDSYM LSETQAEVAA ETL SKENLES MV
<b>Source</b>	Baculovirus
<b>Target Names</b>	Gls2
<b>Protein Names</b>	Recommended name: Glutaminase liver isoform, mitochondrial Short name= GLS EC= 3.5.1.2 Alternative name(s): L-glutaminase L-glutamine amidohydrolase
<b>Expression Region</b>	15-602
<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 of Mature Protein
<b>Target Details</b>	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.
<b>Reconstitution</b>	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  $-20^{\circ}\text{C}/-80^{\circ}\text{C}$ . 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  $-20^{\circ}\text{C}/-80^{\circ}\text{C}$ . The shelf life of lyophilized form is 12 months at  $-20^{\circ}\text{C}/-80^{\circ}\text{C}$ .