



# Recombinant Human Glycine--tRNA ligase (GARS)

<b>Product Code</b>	CSB-EP009262HU-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P41250
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>MPSRPVLLR GARAALLLLL PPRLLARPSL LLRRSLSAAS CPPISLPAAA  SRSSMDGAGA EEVLAPLRLA VRQQGDLVRK LKEDKAPQVD VDKAVAE LKA  RKRVL EAKEL ALQPKDDIVD RAKMEDTLKR RFFYDQAF AI YGGVSGLYDF  GPVGCALKNN IIQWRQHFI QEEQILEIDC TMLTPEPVLK TSGHVDFAD  FMVKDVKNGE CFRADHLLKA HLQKLMSDKK CSVEKKSEME SVLAQLDNYG  QQELADLFVN YNVKSPITGN DLSPVVSFNL MFKTFIGPGG NMPGYLRPET  AQGIFLNFKR LLEFNQGKLP FAAAQIGNSF RNEISPRSG L IRVREFTMAE  IEHFVDPSEK DHPKFQNVAD LHLYL YSAKA QVSGQSARKM RLGDAVEQGV  INNTVLGYFI GRIYLYLTKV GISPDKLRFR QHMENEMAHY ACDCWDAESK  TSYGWIEIVG CADRSCYDLS CHARATKVPL VAEKPLKEPK TVNVVQFEP S  KGAIGKAYKK DAKLVMEYLA ICDECYITEM EMLLNEKGEF TIETEGKTFQ  LTKDMINVKR FQKTLYVEEV VPNVIEPSFG LGRIMYTVFE HTFHVREGDE  QRTFFSFP AV VAPFKCSVLP LSQNQEFMPF VKELSEALTR HGVSHKVDD S  SGSIGRRYAR TDEIGVAFGV TIDFDTVNKT PHTATLRDRD SMRQIRAEIS  ELPSIVQDLA NGNITWADVE ARYPLFEGQE TGKKETIEE</p>
<b>Source</b>	E.coli
<b>Target Names</b>	GARS
<b>Protein Names</b>	Recommended name: Glycine--tRNA ligase EC= 6.1.1.14 Alternative name(s): Diadenosine tetraphosphate synthetase Short name= AP-4-A synthetase Glycyl-tRNA synthetase Short name= GlyRS
<b>Expression Region</b>	1-739
<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 glycyl-tRNA synthetase, one of the aminoacyl-tRNA synthetases that charge tRNAs with their cognate amino acids. The encoded enzyme is an (alpha) <sub>2</sub> dimer which belongs to the class II family of tRNA synthetases. It has been shown to be a target of autoantibodies in the human autoimmune diseases, polymyositis or dermatomyositis.
<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°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.