



Recombinant Human Glycine--tRNA ligase (GARS)

Product Code	CSB-EP009262HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P41250
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	<p>MPSRPVLLR GARAALLLL PPRLARPSL LLRRSLSAAS CPPISLPAAA SRSSMDGAGA EEVLAPLRLA VRQQGDLVRK LKEDKAPQVD VDKAVAEKKA RKRVLKAKEL ALQPKDDIVD RAKMEDTLKR RFFYDQAF AI YGGVSGLYDF GPVGCALKNN IIQWRQHF I QEEQILEIDC TMLTPEPVLK TSGHVDFKAD FMVKDVKNGE CFRADHLLKA HLQKLMSDKK CSVEKKSEME SVLAQLDNYG QQELADLFVN YNVKSPITGN DLSPVVSFNL MFKTFIGPGG NMPGYLRPET AQGIFLNFKR LLEFNQGKLP FAAAQIGNSF RNEISPRSGI IRVREFTMAE IEHFVDPSEK DHPKFQNVAD LHLVLYSAKA QVSGQSARKM RLGDAVEQGV INNTVLGYFI GRIYLYLTKV GISPKLRF R QHMENEMAHY ACDCWDAESK TSYGWIEIVG CADRSCYDLS CHARATKVPL VAEKPLKEPK TVNVVQFEP KGAIGKAYKK DAKLVMEYLA ICDECYITEM EMLLNEKGEF TIETEGKTFQ LTKDMINVKR FQKTLVVEEV VPNVIEPSFG LGRIMYTVFE HTFHVREGDE QRTFFSFPV VAPFKCSVLP LSQNQEFMPF VKELSEALTR HGVSHKVDSD SGSIGRRYAR TDEIGVAFGV TIDFDTVNKT PHTATLRDRD SMRQIRAEIS ELPSIVQDLA NGNITWADVE ARYPLFEGQE TGKKETIEE</p>
Source	E.coli
Target Names	GARS
Protein Names	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
Expression Region	1-739
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 glycyl-tRNA synthetase, one of the aminoacyl-tRNA synthetases that charge tRNAs with their cognate amino acids. The encoded enzyme is an (alpha) ₂ 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.
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.