



Recombinant Human Glutaminase liver isoform, mitochondrial(GLS2)

Product Code	CSB-EP887058HU
Relevance	Plays an important role in the regulation of glutamine catabolism. Promotes mitochondrial respiration and increases ATP generation in cells by catalyzing the synthesis of glutamate and alpha-ketoglutarate. Increases cellular anti-oxidant function via NADH and glutathione production. May play a role in preventing tumor proliferation.
Storage	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.
Uniprot No.	Q9UI32
Storage Buffer	Tris-based buffer,50% glycerol
Alias	L-glutaminase L-glutamine amidohydrolase
Product Type	Recombinant Protein
Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	GSHCGRGGWGHPSRSPLLGGGVRHHLSEAAAQGRETPHSHQPQHGDHDS ESGMLSRLGDLLFYTIAEGQERIPHKFTTALKATGLQTS DPRLRDCMSEMRV VQESSSGLLDRDLFRKCVSSNIVLLTQAFRKKFVIPDFEEFTGHVDRIFEDVK ELTGKVAAYIPQLAKSNPDLWGVSLCTVDGQRHSGVHTKIPFCLQSCVKPLT YAIISTLGTDYVHKFVGKEPSGLRYNKLSLNEEGIPHNPMVNAIAIVVSSLIK DCNKA EKFD FVLQYLNKMAGNEYMGFSNATFQSEKETGDRNYAIGYYLKEKK CFPKGVDMMMAALDLYFQLCSVEVTCESGSVMAATLANGGICPITGESVLSAEA VRNTLSLMHSCGM YDFSGQFAFHVGLPAKSAVSGAILLVVPNVMGMMCLSP LDKLGNSHRGTSFCQKLVS LFNFNHNYDNL RHCARKLDPRREGAEIRNKTVVNL LFAAYSGDV SALRRFALSAMDMEQKDYSRTALHVA AAE GHIEVVKFLIEACK VNPFAKDRWGNIP LDDAVQFNHLEVVKLLQDYQDSYTLSETQAEAAA EALSKE NLESMV
Research Area	Metabolism
Source	E.coli
Gene Names	GLS2
Expression Region	15-602aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	80.7kDa

