Recombinant Human CTP synthase 1 (CTPS1)

Product Code	CSB-MP006176HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P17812
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	MKYILVTGGV ISGIGKGIIA SSVGTILKSC GLHVTSIKID PYINIDAGTF SPYEHGEVFV LDDGGEVDLD LGNYERFLDI RLTKDNNLTT GKIYQYVINK ERKGDYLGKT VQVVPHITDA IQEWVMRQAL IPVDEDGLEP QVCVIELGGT VGDIESMPFI EAFRQFQFKV KRENFCNIHV SLVPQPSSTG EQKTKPTQNS VRELRGLGLS PDLVVCRCSN PLDTSVKEKI SMFCHVEPEQ VICVHDVSSI YRVPLLLEEQ GVVDYFLRRL DLPIERQPRK MLMKWKEMAD RYDRLLETCS IALVGKYTKF SDSYASVIKA LEHSALAINH KLEIKYIDSA DLEPITSQEE PVRYHEAWQK LCSAHGVLVP GGFGVRGTEG KIQAIAWARN QKKPFLGVCL GMQLAVVEFS RNVLGWQDAN STEFDPTTSH PVVVDMPEHN PGQMGGTMRL GKRRTLFQTK NSVMRKLYGD ADYLEERHRH RFEVNPVWKK CLEEQGLKFV GQDVEGERME IVELEDHPFF VGVQYHPEFL SRPIKPSPPY FGLLLASVGR LSHYLQKGCR LSPRDTYSDR SGSSSPDSEI TELKFPSINH D
Source	Mammalian cell
Target Names	CTPS1
Protein Names	Recommended name: CTP synthase 1 EC= 6.3.4.2Alternative name(s): CTP synthetase 1 UTP--ammonia ligase 1
Expression Region	1-591
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	The catalytic conversion of UTP to CTP is accomplished by the enzyme cytidine-5-prime-triphosphate synthetase. The enzyme is important in the biosynthesis of phospholipids and nucleic acids, and plays a key role in cell growth, development, and tumorigenesis. The region to which the CTPS gene has been mapped is the location of breakpoints involved in several tumor types
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.