

Recombinant Human CTPS1 Protein (1-591 aa), His-tagged

Cat. No. CTPS1-1753H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CTPS1 Protein (1-591 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Signal Transduction. Protein Description: Full Length.
Species	Human
Source	Yeast
ProteinLength	1-591 aa
Description	This enzyme is involved in the de novo synthesis of CTP, a precursor of DNA, RNA and phospholipids. Catalyzes the ATP-dependent amination of UTP to CTP with either L-glutamine or ammonia as a source of nitrogen. This enzyme and its product, CTP, play a crucial role in the proliferation of activated lymphocytes and therefore in immunity.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	68.7 kDa
AA Sequence	MKYILVTGGVISGIGKGIIASSVGTILKSCGLHVTSIKIDPYINIDAGTFSPYEHGEVFVL DDGGEVDLDLGNRYERFLDIRLTKDNNLTGKIYQYVINKERKGDYLGKTVQVPHITD AIQEWVMRQALIPVDEDDGLEPQVCVIELGGTVGDIESMPFIEAFRQFQFKVKRENFC NIHVSLVPQPSSTGEQKTKPTQNSVRELRLGLSPDLVVCRCNSNPLDTSVKEKISMF CHVEPEQVICVHDVSSIYRVPLLLLEEQGVVDYFLRRDLPIERQPRKMLMKWKEMAD

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RYDRLLLETCSIALVGKYTKFSDSYASVIKALEHSALAINHKLEIKYIDSADLEPITSQEE
 PVRYHEAWQKLCSAHGVLVPGGFGVRGTEGKIQAIAWARNQKKPFLGVCLGMQLA
 VVEFSRNVLGWQDANSTEFDPPTTSHPVVVDMPENPGQMGGTMRLGKRRTLFQT
 KNSVMRKLYGDADYLEERHRHRFEVNPVWKKCLEEQGLKFVGQDVEGERMEIVEL
 EDHPFFVGVQYHPEFLSRPIKPSPPYFGLLLASVGRLSHYLQKGCRLSPRDTYSDRS
 GSSSPDSEITELKFPSINH

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name CTPS1 CTP synthase 1 [Homo sapiens (human)]

Official Symbol CTPS1

Synonyms CTPS; GATD5; IMD24;

Gene ID 1503

mRNA Refseq NM_001301237

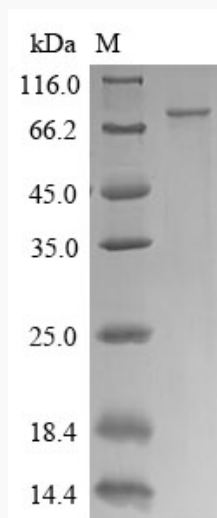
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Protein Refseq NP_001288166

UniProt ID P17812



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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