

Recombinant Human CTP synthase 1(CTPS1)



Catalog No: #AP73745

Package Size: #AP73745-1 10ug #AP73745-2 50ug #AP73745-3 100ug #AP73745-4 200ug #AP73745-5 500ug #AP73745-6 1mg
Orders: order@abscitech.com
Support: tech@abscitech.com

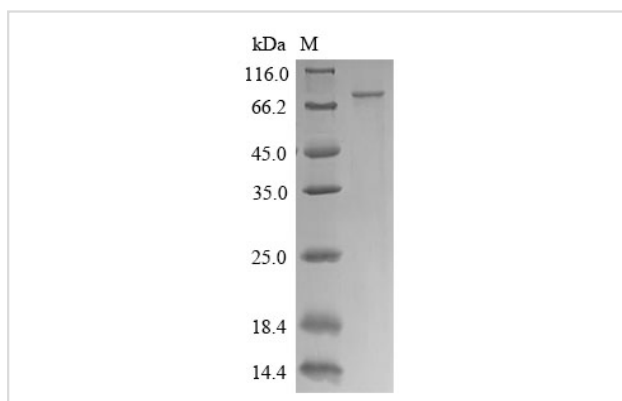
Description

Product Name	Recombinant Human CTP synthase 1(CTPS1)
Brief Description	Recombinant Protein
Host Species	Yeast
Target Name	CTPS1
Other Names	CTP synthetase 1 UTP--ammonia ligase 1
Accession No.	Uniprot ID: P17812
Target Species	Hu
SDS-PAGE MW	68.69kDa
Target Length	Full Length,1-591aa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MKYILVTGGVISGIGKGIIASSVGTILKSCGLHVTSIKIDPYINIDAGTFSPYEHGEVFLDDGGEVLDLDLGNYERF LDIRLTKDNNLTGKIYQYVINKERKGDYLGKTVQVVPHITDAIQEWVMRQALIPVDEDGLEPQVCVIELGGTVG DIESMPFIEAFRQFQFKVKRENFCNIHVSLVPQPSSTGEQKTKPTQNSVRELRLGLSPDLVVCRCSNPLDTS VKEKISMFCHVEPEQVICVHDVSSIYRVPLLLLEEQGVVDYFLRRDLPIERQPRKMLMKWKEMADRYDRLLET CSIALVGKYTKFSDSYASVIKALEHSALAINHKLEIKYIDSADLEPITSQEEPVRYHEAWQKLCSAHGVLPGGF GVRGTEGKIQAIAWARNQKKPFLGVCLGMQLAVVEFSRNVLGWQDANSTEFDP TTSHPVVVDMPEHNPGQM GGTMRLGKRRTLFQTKNSVMRKLYGDADYLEERHRHRFEVNPVWKKCLEEQGLKFVGQDVEGERMEIVELE DHPFFVGQYHPEFLSRPIKSPPPYFGLLLASVGRLSHYLQKGCRLSPRDTYSDRSGSSSPDSEITELKFPSIN HD
Formulation	Tris-based buffer,50% glycerol
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.

Application Details

Greater than 90% as determined by SDS-PAGE.

Images



Background

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.

References

"Molecular cloning of the human CTP synthetase gene by functional complementation with purified human metaphase chromosomes."Yamauchi M., Yamauchi N., Meuth M.EMBO J. 9:2095-2099(1990)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.