

Product datasheet for **LY300002**

CTP synthase (CTPS1) Human Knockdown Lysate

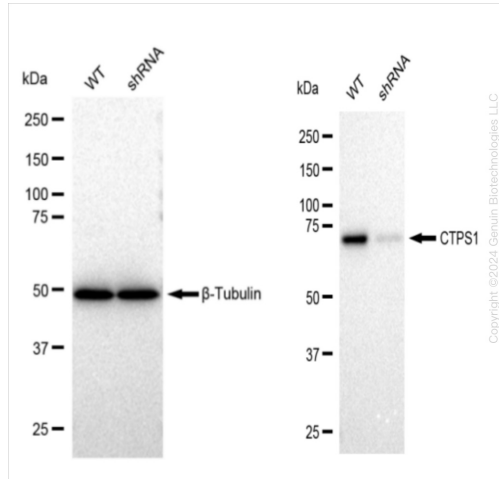
Product data:

Product Type:	Knockdown Lysates
Description:	WB-validated CTPS1 Knockdown Cell Lysate
Species:	Human
Expression Host:	293T
Tag:	Tag Free
Synonyms:	CTPS1; CTP Synthase 1; GATD5A; CTPS; UTP--Ammonia Ligase 1; CTP Synthetase 1; EC 6.3.4.2; Cytidine 5-Prime Triphosphate Synthetase; Cytidine 5'-Triphosphate Synthetase; CTP Synthase; GATD5; IMD24
Predicted MW:	67 kDa
Components:	1 vial of 100 ug WT 293T cell lysate 1 vial of 100 ug CTPS1 KD 293T cell lysate
Storage:	Store at -20 °C for two years.
Concentration:	Lot-specific
Buffer:	IntactProtein Cell-Tissue Lysis buffer
Locus ID:	1503
UniProt ID:	P17812
Protein Pathways:	Metabolic pathways, Pyrimidine metabolism

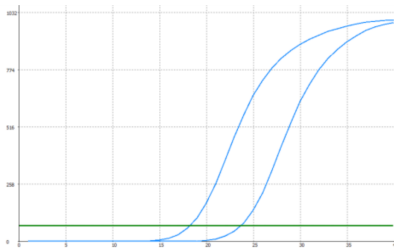


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Product images:



Western blotting analysis. CTPS1 protein expression in wild-type (WT) and shRNA knockdown (KD) 293T cells was detected using Western blotting. β -Tubulin served as a loading control. The blots were incubated with primary antibodies against CTPS1 and β -Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.



Genotype	Ct Value
Wild-Type	18.27
Knock-Down	23.66
Δ Ct (Ct _{KD} -Ct _{WT})	5.39
% mRNA Reduction	↓ 98%

RT-qPCR analysis. 293T cells were infected with CTPS1-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. Δ Ct (Ct_{KD}-Ct_{WT}) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1 - 1/2^{\Delta\text{Ct}}) \times 100\%$.