

## Human CTP synthase 1 (CTPS) ELISA Kit | CTPS elisa kit

Human CTP synthase 1 (CTPS) ELISA Kit

CATALOG #  
**AAA246834**

REACTIVITY  
**Human**

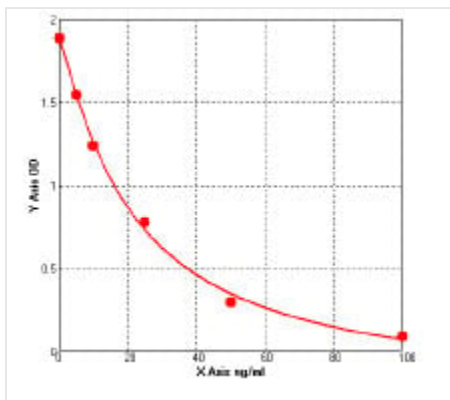
### PRODUCT SYNONYMS

CTP synthase 1 (CTPS); Human CTP synthase 1 (CTPS) ELISA Kit; CTPS elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                       |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of CTPS1. No significant cross-reactivity or interference between CTPS1 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CTPS1 and all the analogues, therefore, cross reaction may still exist in some cases. |
| Samples                 | Serum, plasma, cell culture supernatants, body fluid and tissue homogenate                                                                                                                                                                                                                                                                                                                  |
| Assay Type              | Quantitative Competitive                                                                                                                                                                                                                                                                                                                                                                    |
| Sensitivity             | 1.0 ng/mL                                                                                                                                                                                                                                                                                                                                                                                   |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                         |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for CTPS1 elisa kit | <p>Intended Uses: This CTPS1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human CTPS1. This ELISA kit for research use only!</p> <p>Principle of the Assay: CTPS1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-CTPS1 antibody and an CTPS1-HRP conjugate. The assay sample and buffer are incubated together with CTPS1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the CTPS1 concentration since CTPS1 from samples and CTPS1-HRP conjugate compete for the anti-CTPS1 antibody binding site. Since the number of sites is limited, as more sites are occupied by CTPS1 from the sample, fewer sites are left to bind CTPS1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CTPS1 concentration in each sample is interpolated from this standard curve.</p> |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                         |
|----------------------------------|---------------------------------------------------------|
| NCBI GI #                        | 172072613                                               |
| NCBI GeneID                      | 51797                                                   |
| NCBI Accession #                 | NP_058028.2                                             |
| NCBI GenBank Nucleotide #        | NM_016748.2                                             |
| Molecular Weight                 | 66,682 Da                                               |
| NCBI Official Full Name          | CTP synthase 1                                          |
| NCBI Official Synonym Full Names | cytidine 5'-triphosphate synthase                       |
| NCBI Official Symbol             | Ctps                                                    |
| NCBI Official Synonym Symbols    | Ctps1                                                   |
| NCBI Protein Information         | CTP synthase 1; CTP synthetase 1; UTP--ammonia ligase 1 |
| UniProt Protein Name             | CTP synthase 1                                          |
| UniProt Gene Name                | Ctps1                                                   |
| UniProt Entry Name               | PYRG1_MOUSE                                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.