

## Carbamoyl-phosphate synthase [ammonia], mitochondrial (Cps1) Recombinant Protein | Cps1 recombinant protein

Recombinant Mouse Carbamoyl-phosphate synthase [ammonia], mitochondrial (Cps1) , partial

CATALOG #  
AAA117378

HOST  
E Coli or Yeast or Baculovirus or Mammalian Cell

### PRODUCT SYNONYMS

Carbamoyl-phosphate synthase [ammonia]; mitochondrial (Cps1); Recombinant Mouse Carbamoyl-phosphate synthase [ammonia]; partial; Cps1 recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                                            |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                                                   |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                                            |
| Sequence Positions      | 551-743aa; Partial                                                                                                                                                                                                          |
| Sequence                | SDKLNEINEK IAPSFAVESM EDALKAADTI GYPVMIRSAY ALGGLGSGIC PNKETLIDLG TKAFAMTNQI<br>LVERSVTGWK EIEYEVVRDA DDNCVTVCNM ENVDAMGVHT GDSVVVAPAQ TLSNAEFQML RRTSVNVVRH<br>LGIVGECNIQ FALHPTSM EY CIIEVNARLS RSSALASKAT GYPLAFIAAK IAL |
| Species                 | Mouse                                                                                                                                                                                                                       |
| Preparation and Storage | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.                         |

### ADDITIONAL INFORMATION

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for Cps1 recombinant protein | This protein is an enzyme that catalyzes the first committed step of the hepatic urea cycle, which is important in the removal of excess urea from cells. There are two isozymes of this enzyme, and the encoded protein is the mitochondrial form. Three transcript variants encoding different isoforms have been found for this gene. The shortest isoform may not be localized to the mitochondrion. |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### NCBI AND UNIPROT INFORMATION

|                                  |                                  |
|----------------------------------|----------------------------------|
| NCBI GI #                        | 124248512                        |
| NCBI GeneID                      | 227231                           |
| NCBI Accession #                 | NP_001074278.1                   |
| NCBI GenBank Nucleotide #        | NM_001080809.2                   |
| UniProt Accession #              | Q8C196; Q6NX75; A0JNU4           |
| Molecular Weight                 | 164,618 Da                       |
| NCBI Official Full Name          | carbamoyl-phosphate synthase     |
| NCBI Official Synonym Full Names | carbamoyl-phosphate synthetase 1 |
| NCBI Official Symbol             | Cps1                             |
| NCBI Official Synonym Symbols    | CPS; D1Ucla3; 4732433M03Rik      |

|                            |                                                       |
|----------------------------|-------------------------------------------------------|
| NCBI Protein Information   | carbamoyl-phosphate synthase [ammonia], mitochondrial |
| UniProt Protein Name       | Carbamoyl-phosphate synthase [ammonia], mitochondrial |
| UniProt Gene Name          | Cps1                                                  |
| UniProt Synonym Gene Names | CPSase I                                              |

**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.

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Online datasheet: <https://stage.aaabiotech.com/cps1-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/117378>