

Recombinant Human CPS1 Protein, GST-tagged

Cat. No. CPS1-1809H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CPS1 partial ORF (NP_001866, 1400 a.a. - 1500 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	The mitochondrial enzyme encoded by this gene catalyzes synthesis of carbamoyl phosphate from ammonia and bicarbonate. This reaction is the first committed step of the urea cycle, which is important in the removal of excess urea from cells. The encoded protein may also represent a core mitochondrial nucleoid protein. Three transcript variants encoding different isoforms have been found for this gene. The shortest isoform may not be localized to the mitochondrion. Mutations in this gene have been associated with carbamoyl phosphate synthetase deficiency, susceptibility to persistent pulmonary hypertension, and susceptibility to venoocclusive disease after bone marrow transplantation.[provided by RefSeq, May 2010]
Molecular Mass	36.85 kDa
AA Sequence	ANNVPATPVAWPSQEGQNPSLSSIRKLIRDGSIDLVINLPNNNTKFEVHDNYVIRRTAV DSGIPLLTNFQVTKLFAEAVQKSRKVDSKSLFHYRQYSAGKAA
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production

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 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Array

Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

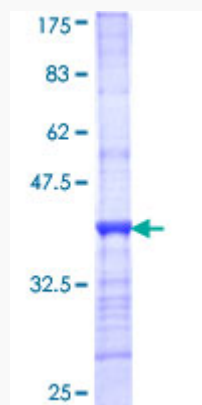
GENE INFORMATION

Gene Name	CPS1 carbamoyl-phosphate synthase 1, mitochondrial [Homo sapiens]
Official Symbol	CPS1
Synonyms	CPS1; carbamoyl-phosphate synthase 1, mitochondrial; carbamoyl phosphate synthetase 1, mitochondrial; carbamoyl-phosphate synthase [ammonia], mitochondrial; carbamoylphosphate synthetase I; CPSASE1;
Gene ID	1373
mRNA Refseq	NM_001122633
Protein Refseq	NP_001116105
MIM	608307
UniProt ID	P31327

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Quality Control**Testing:**

12.5% SDS-PAGE Stained with Coomassie Blue.

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