



# Recombinant Human Ornithine carbamoyltransferase, mitochondrial (OTC)

<b>Product Code</b>	CSB-MP017270HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P00480
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	NKVQLKGR DLLTLKNFTG EEIKYMLWLS ADLKFRKQK GEYLPLLQ GK SLGMIFEKRS TRTRLSTETG FALLGGHPCF LTTQDIHLGV NESLTD TARV LSSMADAVLA RVYKQSDLDL LAKEASIIPII NGLSDLYHPI QILADYLT LQ EHYSSLKGLT LSWIGDGN NI LHSIMMSAAK FGMHLQAATP KGYEPDASVT KLAEQYAKEN GTKLLLLTNDP LEAAHGGNVL ITDTWISMGQ EEEKKKRLQA FQGYQVTMKT AKVAASDWTF LHCLPRKPEE VDDEVFYSPR SLVFPEAENR KWTIMAVMVS LLTDYSPQLQ KPKF
<b>Source</b>	Mammalian cell
<b>Target Names</b>	OTC
<b>Protein Names</b>	Recommended name: Ornithine carbamoyltransferase, mitochondrial EC= 2.1.3.3 Alternative name(s): Ornithine transcarbamylase Short name= OTCase
<b>Expression Region</b>	33-354
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This nuclear gene encodes a mitochondrial matrix enzyme. Missense, nonsense, and frameshift mutations in this enzyme lead to ornithine transcarbamylase deficiency, which causes hyperammonemia. Since the gene for this enzyme maps close to that for Duchenne muscular dystrophy, it may play a role in that disease also.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</b>	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.