

## 32-2637: OTC Recombinant Protein

**Alternative Name :** Ornithine carbamoyltransferase mitochondrial, Ornithine transcarbamylase, OTCase, OCTD, EC 2.1.3.3.

### Description

Source : E.coli. OTC Recombinant produced in E. coli is a single polypeptide chain containing 347 amino acids (33-354) and having a molecular mass of 38.9kDa. OTC is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. OTC is a member of the ATCase/OTCase family. OTC has a key part in the urea cycle, catalyzing the second step in this pathway: the transformation of L-ornithine and carbamoyl phosphate to L-citrulline. In humans, the urea cycle is a vital pathway to detoxification of ammonia. Alterations in the gene encoding OTC are linked to the X-linked disorder OTCD (ornithine carbamoyltransferase deficiency). OTCD disorder of the urea cycle is characterized by hyperammonemia.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 90% as determined by SDS-PAGE.
<b>Content :</b>	The OTC solution (0.5mg/ml) contains 20mM MES buffer (pH 6.0), 100mM NaCl, 2mM DTT and 10% glycerol.
<b>Storage condition :</b>	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
<b>Amino Acid :</b>	MGSSHHHHH SSGLVPRGSH MGSHMNKVQL KGRDLLTLKN FTGEEIKYML WLSADLKFR I KQKGEYLPLL QGKSLGMIFE KRSTRRLST ETGFALLGGH PCFLTQDIH LGVNESLTD T ARVLSSMADA VLARVYQSD LDTLAKEASI PIINGLSDLY HPIQILADYL TLQEHYSSLK GLTLWIGDG NNILHSIMMS AAKFGMHLQA ATPKGYEPDA SVTKLAEQYA KENGTKLLLT NDPLEAAHGG NVLITDTWIS MGQEEKKKR LQAFQGYQVT MKTAKVAASD WTLFLHCLPRK PEEVDDEVFY SPRSLVFPEA ENRKWTIMAV MVSLLDYSP QLQKPKF.

