

**OTC, 33-354aa, Human, His tag, E.coli**

**Cat.NO.: TP03268**

3th Edition

**Synonyms:** Ornithine carbamoyltransferase, OCTD, OTCase.

**Description:** OTC, also called ornithine carbamoyltransferase, belongs to the ATCase/OTCase family. OTC plays a vital role in the urea cycle, catalyzing the second step in this pathway: the formation of L-citrulline from L-ornithine and carbamoyl phosphate. In humans, the urea cycle is an important pathway to detoxification of ammonia. Mutations in the gene encoding OTC are associated with the X-linked disorder OTCD (ornithine carbamoyltransferase deficiency).

**Form:** Liquid. In 20mM MES buffer (pH 6.0) containing 2mM DTT, 10% glycerol, 100mM NaCl

**Molecular Weight:** 38.9kDa (347aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSHMNKVQLKGRDLLTLKNFTGEEIKYMLWLSADLKFRKQKGEYLP LLQGKSL  
GMIFEKRSTRTRLSTETGFALLGGHPCFLT TQDIHLGVNESLTD TARVLSSMADAVLARVYKQSDLDTLAKEASIIIN  
GLSDLYHPIQILADYLT LQEHYSSLKGLT LSWIGDGNLH SIMMSAAKFGMHLQAATPKGYEPDASVTKLAEQYAKE  
NGTKLLL TNDPLEAAHG GNVLITDTWISMGQEE EKKRLQAFQGYQVTMKTAKVAASDWTFLHCLPRKPEEVDDE  
VFYSPRSLVFPEAENRKWTIMAVMV SLLTDYSPQLQKPKF

**Purity:** > 95% by HPLC

**Concentration:** 0.5mg/ml (determined by Bradford assay)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.