

## OTC Human

**Description:**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.

Catalog #:ENPS-603

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

For research use only.

**Source:**E.coli.

**Physical Appearance:**Sterile Filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MGSHMNKVQL KGRDLLTLKN  
FTGEEIKYML WLSADLKFRI KQKGEYLP LL QGKSLGMIFE KRSTRTRLST ETGFALLGGH  
PCFLTQDIH LGVNESLTD T ARVLSSMADA VLARVYKQSD LDTLAKEASI PIINGLSPLY  
HPIQILADYL TLQEHYSSLK GLTLWIGDG NNILHSIMMS AAKFGMHLQA ATPKGYEPDA  
SVTKLAEQYA KE

**Purity:**Greater than 90% as determined by SDS-PAGE.

### Formulation:

The OTC solution (0.5mg/ml) contains 20mM MES buffer (pH 6.0), 100mM NaCl, 2mM DTT and 10% glycerol.

### Stability:

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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

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.

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