

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

For research use only.

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

Source: E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHH SSGLVPRGSH MGSHMNKVQL KGRDLLTLKN
FTGEEIKYML WLSADLKFR I KQKGEYLP LL QGKSLGMIFE KRSTRTRLST ETGFALLGGH
PCFLTQQDIH LGVNESLTD T ARVLSSMADA VLARVYQSD LDTLAKEASI PIINGLS DLY
HPIQILADYL TLQEHYSSLK GLTSLWIGDG 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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