NKMAXBio We support you, we believe in your research Recombinant human Ornithine Carbamoyltransferase/OTC protein

Catalog Number: ATGP1473

PRODUCT INFORMATION

Expression system E.coli

Domain 33-354aa

UniProt No. P00480

NCBI Accession No. NP_000522.3

Alternative Names ornithine carbamoyltransferase, OCTD, OTCase

PRODUCT SPECIFICATION

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

Concentration 0.5mg/ml (determined by Bradford assay)

Formulation Liquid in. 20mM MES buffer (pH 6.0) containing 2mM DTT, 10% glycerol, 100mM NaCl

Purity > 95% by SDS-PAGE

Tag His-Tag

Application SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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-orthinine 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). OTCD is a disorder of the urea cycle characterized by hyperammonemia. Recombinant human OTC protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using



NKMAXBio We support you, we believe in your research Recombinant human Ornithine Carbamoyltransferase/OTC protein Catalog Number: ATGP1473

conventional chromatography techniques.

Amino acid Sequence

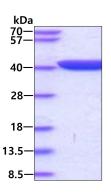
<MGSSHHHHHH SSGLVPRGSH MGSHM>NKVQL KGRDLLTLKN FTGEEIKYML WLSADLKFRI KQKGEYLPLL QGKSLGMIFE KRSTRTRLST ETGFALLGGH PCFLTTQDIH LGVNESLTDT ARVLSSMADA VLARVYKQSD LDTLAKEASI PIINGLSDLY HPIQILADYL TLQEHYSSLK GLTLSWIGDG NNILHSIMMS AAKFGMHLQA ATPKGYEPDA SVTKLAEQYA KENGTKLLLT NDPLEAAHGG NVLITDTWIS MGQEEEKKKR LQAFQGYQVT MKTAKVAASD WTFLHCLPRK PEEVDDEVFY SPRSLVFPEA ENRKWTIMAV MVSLLTDYSP QLQKPKF

General References

Trivedi, M., et al. (2001) J. Clin. Gastroenterol. 32: 340-343. Yamaguchi, S., et al. (2006) Hum. Mutat. 27: 626-632.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

