

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

Amount :	10 µg
Purification :	Greater than 90% as determined by SDS-PAGE.
Content :	The OTC solution (0.5mg/ml) contains 20mM MES buffer (pH 6.0), 100mM NaCl, 2mM DTT and 10% glycerol.
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSHMNKVQL KGRDLLTLKN FTGEEIKYML WLSADLKFR KQKGEYLP LL QGKSLGMIFE KRSTRTRLST ETGFALLGGH PCFLTQDIH LGVNESLTD ARVLSSMADA VLARVYKQSD LDTLAKEASI PIINGLSLY HPIQILADYL TLQEHYSSK GLTSLWIGDG NNILHSIMMS AAKFGMHLQA ATPKGYEPDA SVTKLAEQYA KENGTKLLLT NDPLEAAHGG NVLITDTWIS MGQEEKKKR LQAFQGYQVT MKTAKVAASD WTFLHCLPRK PEEVDDEVFY SPRSLVFPEA ENRKWTIMAV MVSLLTDYSP QLQKPKF.

