
Product Data Sheet

Product Name: OTC Human
 Cat. No.: GP22038
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Ornithine carbamoyltransferase mitochondrial; Ornithine transcarbamylase; OTCase; OCTD; EC 2.1.3.3.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMNKVQL KGRDLLTLKN FTGEEIKYML WLSADLKFRI KQKGEYLPLL QGKSLGMIFE KRSTRTRLST ETGFALLGGH PCFLTQDIH LGVNESLTDI ARVLSSMADA VLARVYKQSD LDTLAKEASI PIINGLSLDLY HPIQILADYL TLQEHYSSLK GLTSLWIGDG NNILHSIMMS AAKFGMHLQA ATPKGYEPDA SVTKLAEQYA KENGTLLLLT NDPLEAAHGG NVLITDTWIS MGQEEEEKKR LQAFQGYQVT MKTAKVAASD WTFLHCLPRK PEEVDDEVFY SPRSLVFPEA ENRKWTIMAV MVSLLTDYSP QLQKPKF.		
Formulation	The OTC solution (0.5mg/ml) contains 20mM MES buffer (pH 6.0), 100mM NaCl, 2mM DTT and 10% glycerol.		

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.

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.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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