

Ornithine Carbamoyltransferase Recombinant Protein | OTC recombinant protein

Recombinant Human Ornithine Carbamoyltransferase

CATALOG # AAA38943	HOST E Coli
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PRODUCT SYNONYMS

Ornithine Carbamoyltransferase; Recombinant Human Ornithine Carbamoyltransferase; Ornithine carbamoyltransferase mitochondrial; Ornithine transcarbamylase; OTCase; OCTD; EC 2.1.3.3.; OTC recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	The OTC solution (0.5mg/ml) contains 20mM MES buffer (pH 6.0), 100mM NaCl, 2mM DTT and 10% glycerol.
Sequence	<u>MGSSHHH HHHSSGLVPR GSHMGSHM u>NKVQLKGR DLLTLKNFTG EEIKYMLWLS ADLKFRKQK</u> <u>GEYLPLLQGK SLGMIFEKRS TRTRLSTETG FALLGGHPCF LTTQDIHLGV NESLTDARV LSSMADAVLA</u> <u>RVYKQSDLDL LAKEASIPPII NGLSDLYHPI QILADYLTQ EHYSSLKGLT LSWIGDGNNI LHSIMMSAAK</u> <u>FGMHLQAATP KGYEPDASVT KLAEQYAKEN GTKLLL TNDP LEAAHGGNVL ITDTWISMGO EEEKKKRLQA</u> <u>FQGYQVTMTK AKVAASDWTF LHCLPRKPPEE VDDEVFYSR SLVFPEAENR KWTIMAVMVS LLTDYSPQLQ</u> <u>KPKF</u>
Sequence Length	354
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree 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

ADDITIONAL INFORMATION

Related Product Information for OTC recombinant protein	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. 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.
Product Categories/Family for OTC recombinant protein	Enzymes; Transferase

NCBI AND UNIPROT INFORMATION

NCBI GI #	38788445
NCBI GeneID	5009
NCBI Accession #	NP_000522.3
NCBI GenBank Nucleotide #	NM_000531.5
UniProt Accession #	P00480; Q3KNR1; Q6B0I1; Q9NYJ5; A8K9P2; D3DWB0

Molecular Weight	39,935 Da
NCBI Official Full Name	ornithine carbamoyltransferase, mitochondrial
NCBI Official Synonym Full Names	ornithine carbamoyltransferase
NCBI Official Symbol	OTC
NCBI Official Synonym Symbols	OCTD
NCBI Protein Information	ornithine carbamoyltransferase, mitochondrial; OTCase; ornithine transcarbamylase
UniProt Protein Name	Ornithine carbamoyltransferase, mitochondrial
UniProt Gene Name	OTC
UniProt Synonym Gene Names	OTCase
UniProt Entry Name	OTC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/otc-recombinant-protein-e-coli/38943>