

Recombinant Human OTC protein, His-tagged

Cat. No. OTC-1475H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human OTC(35-354aa) fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	35-354aa
Description	This nuclear gene encodes a mitochondrial matrix enzyme. Missense, nonsense, and frameshift mutations in this enzyme lead to ornithine transcarbamylase deficiency, which causes hyperammonemia. Since the gene for this enzyme maps close to that for Duchenne muscular dystrophy, it may play a role in that disease also.
Form	Protein lyophilized in sterile PBS (58 mM Na ₂ HPO ₄ , 17 mM NaH ₂ PO ₄ , 68 mM NaCl, 300 mM Imidazole, pH 8.0). Trehalose (5-8%) and mannitol (5-8%) protectants were added before lyophilization.
AA Sequence	VQLKGRDLLTLKNFTGEEIKYMLWLSADLKFKRIKQKGEYLP LLQGKSLGMIFEKRSTR TRLSTETGFALLGGHPCFLT TQDIHLGVNESLTDTARVLSSMADAVLARVYKQSDLD TLAKEASIPINGLS DLYHPIQILADYLT LQEHYSSLKGLT LSWIGDGNNILHSIMMSAA KFGMHLQAATPKGYEPDASVTKLAEQYAKENGTKLLLTNDPLEAAHG GNVLTDTWI SMGQEEEEKKRLQAFQGYQVTMKTAKVAASDWTFLHCLPRKP EEVDDEVFYSPRS LVFPEAENRKWTIMAVMVSL LTDYSPQLQKPKF
Purity	90%, by SDS-PAGE with Coomassie Brilliant Blue staining.

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Storage	Store for up to 12 months at -20 centigrade to -80 centigrade as lyophilized powder. Storage of Reconstituted Protein: Short-term storage: Store at 2-8 centigrade for two weeks. Long-term storage: Aliquot and store at -20 centigrade to -80 centigrade for up to 6 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.
Reconstitution	Reconstitute at 0.25 g/μl in 200 μl sterile water for short-term storage. Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature (see below).

GENE INFORMATION

Gene Name	OTC ornithine carbamoyltransferase [Homo sapiens]
Official Symbol	OTC
Synonyms	OTC; ornithine carbamoyltransferase; ornithine carbamoyltransferase, mitochondrial; OTCase; ornithine transcarbamylase; OCTD; MGC129967; MGC129968; MGC138856;
Gene ID	5009

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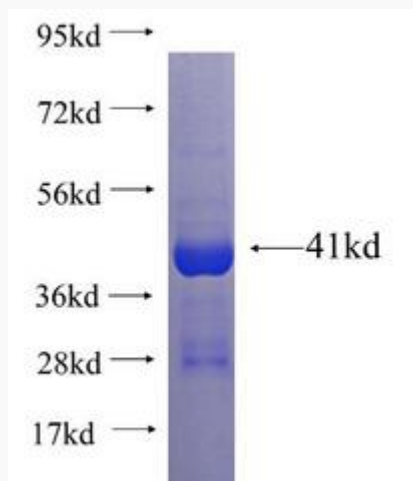
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mRNA Refseq	NM_000531
Protein Refseq	NP_000522
MIM	300461
UniProt ID	P00480
Chromosome Location	Xp21.1
Pathway	Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; Urea cycle, organism-specific biosystem; Urea cycle, organism-specific biosystem;
Function	amino acid binding; ornithine carbamoyltransferase activity; ornithine carbamoyltransferase activity; phosphate ion binding; phospholipid binding; transferase activity;

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