

OTC recombinant protein

OTC, 33-354aa, Human, His tag, E Coli

CATALOG # AAA48753	HOST E Coli	APPLICATIONS SDS-Page
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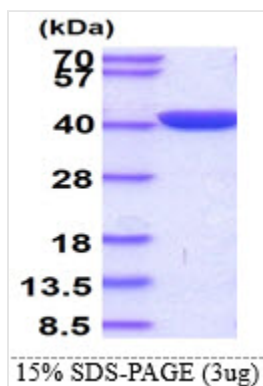
PRODUCT SYNONYMS

OTC; 33-354aa; Human; His tag; E Coli; ornithine carbamoyltransferase; OCTD; OTCase; OTC recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 20mM MES buffer (pH 6.0) containing 2mM DTT, 10% glycerol, 100mM NaCl
Concentration	0.5 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MGSHMNKVQL KGRDLLTLKN FTGEEIKYML WLSADLKFR I KQKGEYLP LL QGKSLGMIFE KRSTRTRLST ETGFALLGGH PCFLT TQDIH LGVNESL TDT ARVLSSMADA VLARVYKQSD LDTLAKEASI PIINGLSDLY HPIQILADYL TLQEHYSSLK GLTL SWIGDG NNILHSIMMS AAKFGMHLQA ATPKGYEPDA SVTKLAEQYA KENGTKLLLT NDPLEAAHGG NVLITDTWIS MGQEEEEKKR LQAFQGYQVT MKTAKVAASD WTLFHLCLPRK PEEVDDEVFY SPRSLVFPEA ENRKWTIMAV MVSLLDYSP QLQKPKF
Sequence Length	354
Applicable Applications for OTC recombinant protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for OTC recombinant protein	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 conventional chromatography techniques.
Product Categories/Family for OTC recombinant protein	Metabolism
References	Trivedi, M., et al. (2001) J. Clin. Gastroenterol. 32: 340-343.; Yamaguchi, S., et al. (2006) Hum. Mutat. 27: 626-632.

NCBI AND UNIPROT INFORMATION

NCBI GI #	38788445
NCBI GeneID	5009
NCBI Accession #	NP_000522
NCBI GenBank Nucleotide #	NM_000531.5
UniProt Accession #	P00480; Q3KNR1; Q6B0I1; Q9NYJ5; A8K9P2; D3DWB0
Molecular Weight	38.9kDa (347aa), confirmed by MALDI-TOF
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
UniProt Protein Name	Ornithine carbamoyltransferase, mitochondrial
UniProt Gene Name	OTC
UniProt Synonym Gene Names	OTCase

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-sds-page/48753>