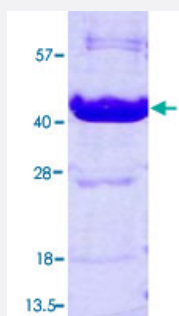


OTC (Human) Recombinant Protein

Catalog # P5390

Size 50 ug

Applications



Specification

Product Description

Human OTC (NP_000522, 33 a.a. - 354 a.a.) partial recombinant protein with His tag expressed in *Escherichia coli*.

Sequence

MGSSHHHHHHSSGLVPRGSHMGSHMNKVQLKGRDLLTLKNFTGEEIKYMLWLSADLKFRKQKG
EYLPLLQGKSLGMIFEKRSTRTRLSTETGFALLGGHPCFLTQDIHLGVNESLTDARVLSSMADA
VLARVYKQSDLDLTAKEASIPINGLSDLYHPIQLADYLTQEYHSSLKGLTLWIGDGNNILHSIMMS
AAKFGMHLQAATPKGYEPDASVTKLAEQYAKENGTKLLLNDPLEAAHGGNVLITDTWISMGQEE
EKKKRLQAFQGYQVTMKTAKVAASDWTFLHCLPRKPEEVDDEVFYSRSLVFPEAENRKWTIMA
VMVSLTLDYSPQLQKPKF

Host

Escherichia coli

Theoretical MW (kDa)

38.9

Form

Liquid

Preparation Method

Escherichia coli expression system

Purification

Conventional Chromatography

Concentration

0.5 mg/mL

Purity

> 90% by SDS-PAGE

Quality Control Testing

Loading 3 ug protein in 15% SDS-PAGE

Storage Buffer

In 20 mM MES buffer, 100 mM NaCl, pH 6.0 (2 mM DTT, 10% glycerol).

Storage Instruction

Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C.
Aliquot to avoid repeated freezing and thawing.

Applications

- [SDS-PAGE](#)

Gene Info — OTC

Entrez GeneID[5009](#)**Protein Accession#**[NP_000522](#)**Gene Name**

OTC

Gene Alias

MGC129967, MGC129968, MGC138856, OCTD

Gene Description

ornithine carbamoyltransferase

Omim ID[300461](#) [311250](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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. [provided by RefSeq]

Other Designations

OTTHUMP00000024343|ornithine transcarbamylase

Pathway

- [Arginine and proline metabolism](#)
- [Metabolic pathways](#)

Disease

- [Alzheimer disease](#)

- [Genetic Predisposition to Disease](#)
- [Ornithine Carbamoyltransferase Deficiency Disease](#)