

Product datasheet for PH314662

OTC (Ornithine Carbamoyltransferase (OTC)) (NM_000531) Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	OTC MS Standard C13 and N15-labeled recombinant protein (NP_000522)
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC214662
Predicted MW:	39.94 kDa
Protein Sequence:	>RC214662 representing NM_000531 Red=Cloning site Green=Tags(s) MLFNLRIILLNNAAFRNGHNFMRNFRCGQPLQNKVQLKGRDLLTLKNFTGEEIKYMLWLSADLKFRKQK GEYLP LLQ GKSLGMIFEKRSTRTRLSTETGFALLGGHPCFLT TQDIHLGVNESL TDTARVLSMADAVLA RVYKQSDLDTLAKEASIP IINGLS DLYHP IQILADYL TLQEHYSSLKGL TL SWIGDGNNILHSIMMSAAK FGMHLQAATPKGYEPDASVTKLAEQYAKENGT KLLL TNDPLEAAHGGNVL ITDTWISMGQEEKKRLQA FQGYQVTMKTAKVAASDWTFLHCLPRKPEEVDDEVFYSRSLVFPEAENRKWTIMAVMVSLLTDYSPQLQ KPKF TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000522
RefSeq Size:	1927
RefSeq ORF:	1062
Synonyms:	OCTD; OTCD
Locus ID:	5009
UniProt ID:	P00480



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Cytogenetics: Xp11.4

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, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Arginine and proline metabolism, Metabolic pathways