

Product datasheet for PH304554

CLYBL (NM_206808) Human Mass Spec Standard

Product data:

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|---------------------------------------|---|
| Product Type: | Mass Spec Standards |
| Description: | CLYBL MS Standard C13 and N15-labeled recombinant protein (NP_996531) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC204554 |
| Predicted MW: | 37.3 kDa |
| Protein Sequence: | >RC204554 protein sequence Red=Cloning site Green=Tags(s) MALRLLRRAARGAAAAALLRLKASLAADIPRLGYSSSSHKYIPRAVLVYPGNDEKKIKKIPSLNVDCALVDCEDGVAANKKNEARLRIVKTLEDIDLGPTEKCVRVNSVSSGLAEEDLETLQSRVLPSSMLPKVESPEEQWFADKFSFHLKGRKLEQPMNLIPFVETAMGLLNFKAVCEETLKVGPQVGLFLDAVVFGGEDFRASIGATSSKETLDILYARQKIVVIAKAFGLQAVDLVYIDFRDGAGLLRQSREGAAMGFTGKQVIHPNQIAVVQEQFSPSPEKIKWAEELIAAFKEHQQLGKGAFTFQGSMDMPLLKQAQNTVTLATSIKEK TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| 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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_996531 |
| RefSeq Size: | 1401 |
| RefSeq ORF: | 1020 |
| Synonyms: | CLB |
| Locus ID: | 171425 |



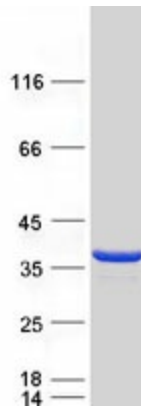
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UniProt ID: [Q8N0X4](#)

Cytogenetics: 13q32.3

Summary: Mitochondrial citramalyl-CoA lyase indirectly involved in the vitamin B12 metabolism (PubMed:29056341). Converts citramalyl-CoA into acetyl-CoA and pyruvate in the C5-dicarboxylate catabolism pathway (PubMed:29056341). The C5-dicarboxylate catabolism pathway is required to detoxify itaconate, a vitamin B12-poisoning metabolite (PubMed:29056341). Also acts as a malate synthase in vitro, converting glyoxylate and acetyl-CoA to malate (PubMed:29056341, PubMed:24334609). Also displays malyl-CoA thioesterase activity (PubMed:29056341). Also acts as a beta-methylmalate synthase in vitro, by mediating conversion of glyoxylate and propionyl-CoA to beta-methylmalate (PubMed:24334609, PubMed:29056341). Also has very weak citramalate synthase activity in vitro (PubMed:24334609, PubMed:29056341).[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified CLYBL protein (Cat# [TP304554]). The protein was produced from HEK293T cells transfected with CLYBL cDNA clone (Cat# [RC204554]) using MegaTran 2.0 (Cat# [TT210002]).