Recombinant Mouse Clybl Protein, Myc/DDK-tagged

Cat. No. Clybl-2204M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length citrate lyase beta like (Clybl), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Mitochondrial citramalyl-CoA lyase indirectly involved in the vitamin B12 metabolism. Converts citramalyl-CoA into acetyl-CoA and pyruvate in the C5-dicarboxylate catabolism pathway. The C5-dicarboxylate catabolism pathway is required to detoxify itaconate, a vitamin B12-poisoning metabolite. Also acts as a malate synthase in vitro, converting glyoxylate and acetyl-CoA to malate. Also displays malyl-CoA thioesterase activity. Also acts as a beta-methylmalate synthase in vitro, by mediating conversion of glyoxylate and propionyl-CoA to beta-methylmalate. Also has very weak citramalate synthase activity in vitro.
Molecular Mass	37.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Clybl citrate lyase beta like [Mus musculus (house mouse)]
Official Symbol	Clybl
Synonyms	CLYBL; citrate lyase beta like; citrate lyase subunit beta-like protein, mitochondrial; citrate lyase beta-like; Clb; AI256068; 0610033J05Rik; 2310014M14Rik
Gene ID	69634
mRNA Refseq	NM_029556
Protein Refseq	NP_083832
UniProt ID	Q8R4N0

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