



LD Biopharma, Inc.
9924 Mesa Rim Road Suite B
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<http://www.ldbiopharma.com>

- PRODUCT DATA SHEET -

Name of Product: Recombinant Human COMMD10 Protein
Catalog Number: hRP-0915
Manufacturer: LD Biopharma, Inc.

Introduction

Human COMM domain-containing protein family is defined by the presence of a conserved and unique motif termed the COMM (copper metabolism gene MURR1) domain, which functions as an interface for protein-protein interactions. Like MURR1, several of these factors also associate with and inhibit NF-kappaB. The proteins designated as COMMD or COMM domain containing 1-10 are extensively conserved in multicellular eukaryotic organisms and define a novel family of structural and functional homologs of MURR1. COMM domain-containing protein 10 (COMMD10)'s function is currently unknown, but has been associated with lipid metabolic disease and bipolar disorder by SNP mapping.

Full-length mature human COMMD10 (202 aa) gene was constructed with 17 aa N-terminal T7 tag and expressed in E.coli as inclusion bodies. The final product was refolded using our unique "temperature shift inclusion body refolding" technology and chromatographically purified.

Gene Symbol: HADH (HSPC305; PTD002)
Accession Number: NP_057228
Species: Human
Size: 50 µg / Vial
Composition: 1.0 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, Sucrose and DTT.
Storage: In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least 30 days.

Key References

Burstein,E., et al., *COMMD proteins, a novel family of structural and functional homologs of MURR1*. J. Biol. Chem. 280 (23), 22222-22232 (2005)



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Applications

1. May be used for in vitro COMMD10 mediated NF κ B pathway regulation study by intracellular delivery of this protein with “ProFectin” reagent.
2. May be used for mapping COMMD10 protein-protein interaction assay.
3. May be used as specific substrate protein for kinase, and ubiquitin (Sumo pathway) related enzyme functional screening assays.
4. As antigen for specific antibody production.

Quality Control

Purity: > 90% by SDS-PAGE.

Recombinant Protein Sequence

MASMTGGQQMGRGEFGSMVPAALILRESPSMKKAVSLINAIDTGRFPRLLTRILQKLHLKAES
SFSEEEEEKLQAAFSLEKQDLHL□VLETISFILEQAVYHNVKPAALQQQLENIHLRQDKAEAFV
NTWSSMGQETVEKFRQRILAPCKLETVGWQ□LNLQMAHSAQAKLKSPQAVLQLGVNNEDESKSLE
KVLVEFSHKELFDYFNKLETIQAQLDSL