LD Biopharma, Inc.
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- PRODUCT DATA SHEET -

Name of Product: Recombinant Human TTC4 Protein
Catalog Number: hRP-0714
Manufacturer: LD Biopharma, Inc.

Introduction

Human TTC4 gene encodes a protein that is orthologue of the Drosophila Dpit47 protein. Dpit47 interact with HSP90 and HSP70 co-chaperones, may plays a role in cellular response to stress. TTC4 protein contains tetratricopeptide (TPR) repeats. The 34-amino acid tetratricopeptide repeat motifs are found in a variety of proteins and may mediate protein-protein interactions and chaperone activity. Recent data also indicated that human TTC4 protein, located in nuclear and interacts with CDC6 protein, is highly expressed in proliferating tissue and tumor lines.

Full-length human TTC4 gene was constructed with 15 N-terminal T7 tag. This protein was expressed in E. coli as inclusion bodies, refolded using our unique "temperature shift inclusion body refolding" technology and chromatographically purified.

Gene Symbol:	TTC4
Accession Number:	NP_004614
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, EDTA, sucrose and DTT.
Storage:	In Liquid. Keep at -20°C for long term storage. Product is stable at 4 °C for at least 30 days.

Key References

Crevel,G., et al., *The human TPR protein TTC4 is a putative Hsp90 co-chaperone which interacts with CDC6 and shows alterations in transformed cells*. PLoS ONE 3 (3), E0001737 (2008)

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Su,G., et al., *TTC4, a novel human gene containing the tetratricopeptide repeat and mapping to the region of chromosome 1p31 that is frequently deleted in sporadic breast cancer*. Genomics 55 (2), 157-163 (1999)

Applications

1. May be used for human TTC4 protein functional study in vitro.
2. May be used for in vitro protein-protein interaction measurement for mapping TTC4 binder.
3. May be used as antigen for specific antibody production.

Quality Control

1. Purity: > 90% by SDS-PAGE.

Recombinant Protein Sequence

MASMTGGQQMGRGEFEQPGQDPTSDDVMDSFLEKFQSQPYRGGFHEDQWEKEFEKVPLFMSRAP
SEIDPRENPDLACLQSIIFDEERSPEEQAKTYKDEGNDYFKEKDYKKAVISYTEGLKKKCADPD
LNAVLYTNRAAAQYYLGNFRSALNDVTAARKLKPCHLKAIIRGALCHLELKHFAEAVNWCDEGL
QIDAKEKKLLEMRAKADKLKRIEQRDVRKANLKEKKERNQNEALLQAIKARNIRLSEAACEDED
SASEGLGELFLDGLSTENPHGARLSLDGQGRLSWPVLFLYPEYAQSDFISAFHEDSRFIDHLMV
MFGETPSWDLEQKYCPDNLEVYFEDEDRAELYRVPAKSTLLQVLQHQRYFVKALTPAFLVCVGS
SPFCKNFLRGRKVYQIR