



LD Biopharma, Inc.
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San Diego, CA 92121
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- PRODUCT DATA SHEET -

Name of Product: Recombinant Human ETV5 Protein
Catalog Number: hTF-1211
Manufacturer: LD Biopharma, Inc.

Introduction

The protein encoded by human ETV5 gene belongs to the ETS family of transcription factors, which is a large group of evolutionarily conserved transcriptional regulators that play an important role in a variety of cellular processes throughout development and differentiation, and are involved in oncogenesis as well. Human ETV5 protein is seemingly more ubiquitously expressed in various human tissues. ETV5 plays a role in oncogenesis in various cancer development.

Full-length human ETV5 cDNA (510aa, Isoform-I) was constructed with codon optimization and expressed with a small T7-His-TEV cleavage site Tag (31aa) fusion at its N-terminal. This protein is 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: ETV5 (ERM)
Accession Number: NP_004445.1
Species: Human
Size: 50 µg / Vial
Composition: 0.5 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, arginine, DTT and Glycerol.
Storage: In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least 30 days.

Key References

Power,P.F., ET AL., *ETV5 as a regulator of matrix metalloproteinase 2 in human chondrosarcoma.* J. Orthop. Res. 31 (3), 493-501 (2013)



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O'Bryan, M.K., ET AL., *Genetic variants in the ETV5 gene in fertile and infertile men with nonobstructive azoospermia associated with Sertoli cell-only syndrome*. *Fertil. Steril.* 98 (4), 827-835 (2012)

Oh, S., ET AL., *ETV1, 4 and 5: an oncogenic subfamily of ETS transcription factors*. *Biochim. Biophys. Acta* 1826 (1), 1-12 (2012)

Applications

1. May be used for in vitro ETV5 mediated oncogenesis regulation study by intracellular delivery this protein with "ProFectin" reagent.
2. May be used as ETV5 protein-protein interaction mapping.
3. As specific substrate protein for kinase and ubiquitin (Sumo pathway) related enzyme functional screening assays.
4. Potential biomarker protein for various cancer diagnoses.
5. As antigen for specific antibody production.

Quality Control

Purity: > 90% by SDS-PAGE.

Recombinant Protein Sequence

MASMTGGQQMGRGHHHHHHENLYFQGGEFDGFYDQQVPMVPGKSRSEECRGRPVIDRKRKFLD
TDLAHDSEELFQDLSQLQEAWLAEAQVPDDEQFVPDFQSDNLVLHAPPPTKIKRELHSPSSELS
SCSHEQALGANYGEKCLYNYCAYDRKPPSGFKPLTPPTTPLSPTHQNPLFPPPQATLPTSGHAP
AAGPVQGVGPAPAPHSLEPFGPQQQTFVAVRPPHQPLQMPKMPENQYPSEQRFQRQLSEPCHP
FPPQPGVPGDNRPSYHRQMSEPIVPAAPPPPQGFQYHDPLYEHGVPMPGPPAHGFQSPMGI
KQEPRDYCVDSEVPNCQSSYMRGGYFSSSHEGFSYEKDPRLYFDDTCVVPERLEGKVKQEPTMY
REGPPYQRRGSLQLWQFLVTLDDPANAHFIAWTGRGMEFKLIEPEEVARRWGIQKNRPAMNYD
KLSRSLRYYYEKGIMQKVAGERYVYKFVCDPDALFSMAFPDNQRPFLKAESECHLSEEDTLPLT
HFEDSPAYLLDMDRCSLPPYAEGFAY