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- PRODUCT DATA SHEET -

Name of Product: Recombinant Human Pax7 Protein
Catalog Number: hTF-1073
Manufacturer: LD Biopharma, Inc.

Introduction

Human Pax7 gene is a member of the paired box (PAX) family of transcription factors. Members of this gene family typically contain a paired box domain, an octapeptide, and a paired-type homeodomain. These genes play critical roles during fetal development and cancer growth. The specific function of the paired box 7 gene is unknown but speculated to involve tumor suppression since fusion of this gene with a forkhead domain family member has been associated with alveolar rhabdomyosarcoma. 3 isoforms have been found for Pax7 gene.

Full-length human Pax7 cDNA (520aa, Isoform_1) was constructed with codon optimization and expressed with a small T7-His-TEV cleavage site Tag (29aa) 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: Pax7 (HUP1; Pax7b; RMS2)
Accession Number: NP_002575
Species: Human
Size: 20 µg / Vial
Composition: 0.20 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 -80°C for long term storage. Product is stable at 4 °C for at least 7 days.

Key References

Yang, X.L., et al., *Detection of PAX3/PAX7-FKHR fusion transcripts in rhabdomyosarcoma and other small round cell tumors by 1-step reverse transcriptase polymerase chain reaction: a novel tool for diagnosis and differentiation.* Ann Diagn Pathol 16

