

Recombinant Human ACTL7A

Cat. No. ACTL7A-26590TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant full length Human ACTL7A expressed in *Saccharomyces cerevisiae*; amino acids 1-435, 48.6kDa.

Species Human

ProteinLength 1-435 a.a.

Description

The protein encoded by this gene is a member of a family of actin-related proteins (ARPs) which share significant amino acid sequence identity to conventional actins. Both actins and ARPs have an actin fold, which is an ATP-binding cleft, as a common feature. The ARPs are involved in diverse cellular processes, including vesicular transport, spindle orientation, nuclear migration and chromatin remodeling. This gene (ACTL7A), and related gene, ACTL7B, are intronless, and are located approximately 4 kb apart in a head-to-head orientation within the familial dysautonomia candidate region on 9q31. Based on mutational analysis of the ACTL7A gene in patients with this disorder, it was concluded that it is unlikely to be involved in the pathogenesis of dysautonomia. The ACTL7A gene is expressed in a wide variety of adult tissues, however, its exact function is not known.

Form Liquid

Purity Immunogen affinity purified

Storage buffer Preservative: None
 Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MWAPPAAIMGDGPTKKVGNQAPLQTQALQTASLRDGPAPKR AVWVRHTSSEPQEP TESKAAKERPKQEVTKAVVVDLGT GYCKCGFAGLPRPTHKISTTVGKPYMETAKTG DNRKET FVGQELNNTNVHLKLVNPLRHGIIVDWDTVQDIWEYLFRQEMKIAPEEHAV LVSDPPLSPHTNREKYAEMLF EAFNTP AMHIAYQSRLSMYSYGRTSGLVVEVGHGV SYVVPIYEG YPLPSITGRLDYAGSDLTAYLLGLLNSAGNEFTQDQMG IVEDIKKKCC FVALDPIEEKKVP LSEHTIRYVLPDGKEIQ LCQERFLCSEMFFKPSLIKSMQLGLHTQ TVSCLNKCDI ALKRDLMGNILLCGGSTMLSGFPNRLQKELSSMCPNDT PQVNVLPE RDSAVWTGGSILASLQGFQPLWVHRFEYEE HGPFFLYRRCF
Full Length	Full L.

GENE INFORMATION

Gene Name	ACTL7A actin-like 7A [Homo sapiens]
Official Symbol	ACTL7A
Synonyms	ACTL7A; actin-like 7A; actin-like protein 7A;
Gene ID	10881
mRNA Refseq	NM_006687
Protein Refseq	NP_006678
MIM	604303
Uniprot ID	Q9Y615

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Chromosome Location	9q31
Function	structural constituent of cytoskeleton;

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