

Recombinant Full Length Human ACTL7A Protein, GST-tagged

Cat. No. ACTL7A-847HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ACTL7A full-length ORF (NP_006678.1, 1 a.a. - 435 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	435 amino acids
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. [provided by RefSeq, Jul 2008]
Molecular Mass	75 kDa
AA Sequence	MWAPPAAIMG DGPTKKVGNQ APLQTQALQT ASLRDGPAPKR AVWVRHTSSE PQEPTESKAA KERPKQEVTK AVVVDLGTGY CKCGFAGLPR PTHKISTTVG

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KPYMETAKTG DNRKETFVGQ ELNNTNVHLK LVNPLRHGII VDWDTVQDIW
 EYLFRQEMKI APEEHAVLVS DPPLSPHTNR EKYAEMLFEE FNTPAMHIAY
 QSRLSMYSYG RTSGLVVEVG HGVSYYVPIY EGYPLPSITG RLDYAGSDLT
 AYLLGLLNSA GNEFTQDQMG IVEDIKKKCC FVALDPIEEK KVPLSEHTIR
 YVLPDGKEIQ LCQERFLCSE MFFKPSLIKS MQLGLHTQTV SCLNKCDIAL
 KRDLMGNILL CGGSTMLSGF PNRLQKELSS MCPNDTPQVN VLPERDSAVW
 TGGSILASLQ GFQPLWVHRF EYEEHGPFFL YRRCF

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [ACTL7A actin-like 7A \[Homo sapiens \]](#)

Official Symbol [ACTL7A](#)

Synonyms ACTL7A; actin-like 7A; actin-like protein 7A; actin-like 7-alpha; actin-like-7-alpha

Gene ID [10881](#)

mRNA Refseq [NM_006687](#)

Protein Refseq [NP_006678](#)

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MIM	604303
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UniProt ID	Q9Y615
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