

Recombinant Full Length Human ACTL7B Protein, GST-tagged

Cat. No. ACTL7B-849HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ACTL7B full-length ORF (NP_006677.1, 1 a.a. - 415 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	415 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 (ACTL7B), and related gene, ACTL7A, 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 ACTL7B gene in patients with this disorder, it was concluded that it is unlikely to be involved in the pathogenesis of dysautonomia. Unlike ACTL7A, the ACTL7B gene is expressed predominantly in the testis, however, its exact function is not known. [provided by RefSeq, Jul 2008]
Molecular Mass	71.6 kDa
AA Sequence	MATRNSPMPL GTAQGDPGEA GTRPGPDASL RDTGAATQLK MKPRKVHKIK AVIIDLGSQY CKCGYAGEPR PTYFISSTVG KRCPEAADAG DTRKWTLVGH

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ELLNTEAPLK LVNPLKHGIV VDWDCVQDIW EYIFRTAMKI LPEEHAVLVS
 DPPLSPSSNR EKYAELMFET FGIPAMHVTS QSLLSIYSYG KTSGLLVESG
 HGVSHVVPIS EGDVLPGLTS RADYAGGDLT NYLMQLLNEA GHAFTDDHLH
 IIEHIKKKCC YAAFLPEEEL GLVPEELRVD YELPDGKLIT IGQERFRCSE
 MLFQPSLAGS TQPGLPELTA ACLGRCQDTG FKEEMAANVL LCGGCTMLDG
 FPERFQRELS LLCPGDSPAV AAAPERKTSV WTGGSILASL QAFQQLWVSK
 EEFEEERGSVA IYSKC

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

ACTL7B actin-like 7B [Homo sapiens]

Official Symbol

ACTL7B

Synonyms

ACTL7B; actin-like 7B; actin-like protein 7B; Tact1; actin-like 7-beta; actin-like-7-beta

Gene ID

10880

mRNA Refseq

NM_006686

Protein Refseq

NP_006677

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MIM	604304
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UniProt ID	Q9Y614
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