

# Recombinant Human ACTL6A Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** ACTL6A-3475H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b> | ACTL6A MS Standard C13 and N15-labeled recombinant protein (NP_004292) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | <p>This gene encodes a family member 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 encodes a 53 kDa subunit protein of the BAF (BRG1/brm-associated factor) complex in mammals, which is functionally related to SWI/SNF complex in <i>S. cerevisiae</i> and <i>Drosophila</i>; the latter is thought to facilitate transcriptional activation of specific genes by antagonizing chromatin-mediated transcriptional repression. Together with beta-actin, it is required for maximal ATPase activity of BRG1, and for the association of the BAF complex with chromatin/matrix. Three transcript variants that encode two different protein isoforms have been described.</p> |
| <b>Molecular Mass</b>   | 43.25 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MVVERDDGSTLMEIDGDKGKQGGPTYIIDTNALRVPRENMEAISPLKNGMVEDWD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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SFQAILDHTYKMHVKSEASLHPVLMSEAPWNTRAKREKLTELMFEHYNIPAFFLCKT  
 AVLTAFANGRSTGLILDSGATHTTAIPVHDGYVLQQGIVKSPLAGDFITMQCRELFQE  
 MNIELVPPYMIATKEAVREGSPANWKRKEKLPQVTRSWHNYMCNCVIQDFQASVLQ  
 VSDSTYDEQVAAQMPTVHYEFPNGYNCDFGAERLKIPEGLFDPSNVKGLSGNTMLG  
 VSHVTTSVGMCIDIRPGLYGSVIVAGGNTLIQSFTDRLNRELSQKTPPSMRLKLI  
 NNTTVERRFSSWIGGSILASLGTFFQMWISKQEYEEGGKQCVERKCPTTRTRPLEQK  
 LISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** ACTL6A actin-like 6A [ Homo sapiens (human) ]

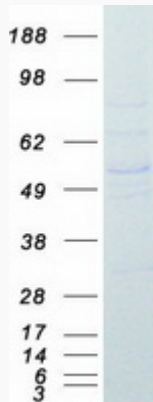
**Official Symbol** ACTL6A

**Synonyms** ACTL6A; actin-like 6A; actin-like protein 6A; actin related protein 4; Actl6; Arp4; BAF complex 53 kDa subunit; BAF53A; Baf53a; BRG1 associated factor; INO80 complex subunit K; INO80K; BAF53; arpNbeta; hArpN beta; actin-related protein 4; BRG1-associated factor 53A; actin-related protein Baf53a; 53 kDa BRG1-associated factor A; ACTL6; ARPN-BETA;

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|----------------|-------------------------------------------------------------------------------------|
| Gene ID        | 86                                                                                  |
| mRNA Refseq    | NM_004301                                                                           |
| Protein Refseq | NP_004292                                                                           |
| MIM            | 604958                                                                              |
| UniProt ID     | O96019                                                                              |
| SDS-PAGE       |  |