

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

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

SPECIFICATION

Product Overview	ACTL6A MS Standard C13 and N15-labeled recombinant protein (NP_004292) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	<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>
Molecular Mass	43.25 kDa
AA Sequence	MVVERDDGSTLMEIDGDKGKQGGPTYIDTNALRVPRENMEAISPLKNGMVEDWD

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SFQAILDHTYKMHVKSEASLHPVLMSEAPWNTRAKREKLTLMFEHYNIPAFFLCKT
 AVLTAFANGRSTGLILDGATHHTTAIPVHDGYVLQQGIVKSPLAGDFITMQCRELFQE
 MNIELVPPYMIATKEAVREGSPANWKRKEKLPQVTRSWHNYMCNCVIQDFQASVLQ
 VSDSTYDEQVAAQMPTVHYEFPNGYNCDFGAERLKIPEGLFDPNSNVKGLSGNTMLG
 VSHVTTSSVGMCDIDIRPGLYGSVIVAGGNTLIQSFTDRLNRELSQKTPPSMRLKLI
 NNTTVERRFSSWIGGSILASLGTFFQMMWISKQEYEEGGKQCVERKCPTRTRPLEQK
 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

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