



# Recombinant Human Actin-like protein 6A (ACTL6A)

<b>Product Code</b>	CSB-EP001236HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	O96019
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	SGGVYGGDE VGALVFDIGS YTVRAGYAGE DCPKVDFTA IGMVVERDDG STLMEIDGDK GKQGGPTYI DTNALRVPRE NMEAISPLKN GMVEDWDSFQ AILDHTYKMH VKSEASLHPV LMSEAPWNTR AKREKLTLEM FEHYNIPAFF LCKTAVLTAF ANGRSTGLIL DSGATHHTAI PVHDGYVLQQ GIVKSPLAGD FITMQCRELF QEMNIELVPP YMIASKEAVR EGSPANWKRK EKLPQVTRSW HNYMCNCVIQ DFQASVLQVS DSTYDEQVAA QMPTVHYEFP NGYNCDFGAE RLKIPEGLFD PSNVKGLSGN TMLGVSHVVT TSVGMCDDI RPLYGGSVIV AGGNTLIQSF TDRLNRELSQ KTPPSMRLKL IANNTTVERR FSSWIGGSIL ASLGTFQQMW ISKQEYEEGG KQCVERKCP
<b>Source</b>	E.coli
<b>Target Names</b>	ACTL6A
<b>Protein Names</b>	Recommended name: Actin-like protein 6A Alternative name(s): 53 kDa BRG1-associated factor A Actin-related protein Baf53a ArpNbeta BRG1-associated factor 53A Short name= BAF53A INO80 complex subunit K
<b>Expression Region</b>	2-429
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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.

---

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

---

**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.