



Recombinant Human Actin-like protein 7B (ACTL7B)

Product Code	CSB-EP897577HU
Abbreviation	ACTL7B
Storage	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.
Uniprot No.	Q9Y614
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MATRNPMPL GTAQGDPGEA GTRPGPDASL RDTGAATQLK MKPRKVHKIK AVIIDLGSQY CKCGYAGEPR PTYFISSTVG KRCPEAADAG DTRKWTLVGH ELLNTEAPLK LVNPLKHGIV VDWDCVQDIW EYIFRTAMKI LPEEHAVLVS DPPLSPSSNR EKYAELMFET FGIPAMHVTS QSLLSIYSYG KTSGLVVESG HGVSHVVPIS EGDVLPGLTS RADYAGGDLT NYLMQLLNEA GHAFTDDHLH IIEHIKKKCC YAAFLPEEEL GLVPEELRVD YELPDGKLIT IGQERFRCSE MLFQPSLAGS TQPGLPELTA ACLGRCQDTG FKEEMAANVL LCGGCTMLDG FPERFQRELS LLCPGDSPAV AAAPERKTSV WTGGSILASL QAFQQLWVSK EEFEERGSVA IYSKC
Source	E.coli
Target Names	ACTL7B
Protein Names	Recommended name: Actin-like protein 7B Alternative name(s): Actin-like-7-beta
Expression Region	1-415
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	This protein 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.

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.