



Recombinant Rat Actin-like protein 7A (Actl7a)

Product Code	CSB-EP720653RA-B
Abbreviation	Actl7a
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.	Q641W9
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥85% (SDS-PAGE)
Sequence	MSLDAVWAPQ TANIGDGPAK KASDQTSMTQ QVLQTASLRD GPAKRAVWVR RDNAEKEEPV KSAVSKDRPR LEVTKAVVVD LGTGFCCKCGF AGLPKPTHKI STTVGKPME TAKTGDNRKE TFGRELFPN DIHLKLVNPL RHGIIVDWDV VQDIWEYLFR QEMKIAPEEH AVLVSPPPLS PHTNREKYAE MLFETFNTPA MHIAYQSRLS MYSYGRSGL VVEVGHGVS YVPIYEGYPL PSITGRLDYA GSDLTNYLMN LMNNCCKHFS EDHLSIVEDI KTKCCFVALD PIEEKKIPPS EHEIHYTLPD GKEIRLGQER FLCSEMFFKP SLIKSMQLGL HTQTVSCLNK CDIALKRDLM GNILLCGGST MLRGFPNRLQ KELSSMCPND TPQVNVLPER DTA VWTGGSI LASLQGFQPL WVHRLEYEEH GPFFLYRRCF
Source	E.coli
Target Names	Actl7a
Protein Names	Recommended name: Actin-like protein 7A
Expression Region	1-440
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 (ACTL7A), and related gene, ACTL7B, 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 ACTL7A gene in patients with this disorder, it was concluded that it is unlikely to be involved in the pathogenesis of dysautonomia. The ACTL7A gene is expressed in a wide variety of adult tissues, 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.