



Recombinant Rat Rho guanine nucleotide exchange factor 7 (Arhgef7)

Product Code	CSB-EP002056RA-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O55043
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	MTDNANSQLV VRAKFNFQQT NEDELSFSKG DVIHVTRVEE GGWWEGTHNG RTGWFPSNYV REIKPSEKPV SPKSGTLKSP PKGFDTTAIN KSYYNVVLQN ILETEHEYSK ELQSVLSTYL WPLQTSEKLS SANTSYLMGN LEEISSFQQV LVQSLEECTK SPEAQQRVGG CFLSLMPQMR TLYLAYCANH PSAVSVLTEH SEDLGEFMET KGASSPGILV LTTGLSKPFM RLDKYPTLLK ELERHMEDYH PDRQDIQKSM TAFKNLSAQC QEVKRKKELE LQILTEPIRS WEGDDIKTLG SVTYMSQVTI QCAGSEEKNE RYLLLPNLL LMLSASPRMS GFIYQGKLP TGMTITKLED SENHRNAFEI SGSMIERILV SCNNQQDLHE WVEHLQRQTK VTSVSNPTIK PHSVPSHTLP SHPLTPSSKH ADSKPVALTP AYHTLPHPSH HGTPHTTISW GPLEPPKTPK PWSLSCLRPA PPLRPSAALC YKEDLSRSPK TMKLLPKRK PERKPSDEEF AVRKSTAAL EDAQILKVIE AYCTSAKTRQ TLNSSSRKES APQVLLPEEE KIIVEETKSN GQTVIEEKSL VDTVYALKDE VQELRQDNKK MKKSLEEEQR ARKDLEKLV R KVLKNMNDPA WDETNL
Source	E.coli
Target Names	Arhgef7
Protein Names	Recommended name: Rho guanine nucleotide exchange factor 7 Alternative name(s): Beta-Pix PAK-interacting exchange factor beta
Expression Region	1-646
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	Rho GTPases play a fundamental role in numerous cellular processes triggered by extracellular stimuli that work through G protein coupled receptors. The encoded protein belongs to a family of cytoplasmic proteins that activate the Ras-like family of Rho proteins by exchanging bound GDP for GTP. It forms a complex with the small GTP binding protein Rac1 and recruits Rac1 to membrane ruffles and to focal adhesions. This protein can induce membrane ruffling. Multiple alternatively spliced transcript variants encoding different isoforms have been described for this gene.



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.