



# Recombinant Rat Gamma-adducin (Add3)

<b>Product Code</b>	CSB-YP714034RA
<b>Abbreviation</b>	Add3
<b>Storage</b>	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.
<b>Uniprot No.</b>	Q62847
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	SSDSSQAVI TTPPPSPMPH KERYFDRINE SDPEYLRERN MSPDLREDFN MMEQRKRVTQ ILQSPAFRED LECLTQEQMK KGHDP TGLLA LQQIADYIMA NSFTGFSSPP LSLGMVTPIN DLPGADTSSY VKGEKLTRCE LASLYRLADL FGWAHLANTY ISVRVSKEQD HIIIPRGLP FSEATASALV KVNIIGEVVD QGSTNLKIDH SGFSPHAAIY STRPDVKCVI HIHTLATAAV SSMKCGILPI SQESLILGDV AYYDYQGS LD EEEERIELQK VLGPSCKVLV LRNHGVVALG ETLEEFHYI FNVQMACEIQ VQAVAGAGGV DNLLILD LQK YKAFTHGVAM TGGGGVNMGS HQKWKVGEIE FEGLMRTL DN LGYRTGYAYR HPLVREKPRH KSDVEIPATV TAFSFE DSV PLSPLKYMAQ RQREKTRWL NSPNTYMKVN VPEESRNGET SPRTKITWMK AEDPSKVSSG TPIKIEDPNQ FVPLNTNPTE VLEKRNKIRE QNRYDLKTAG PQS QLLAGIV VDKPPSTMRF EDDDQGPPAP PNPFSHLM EG ELEEYTKTIE RQQQGLDDAE QESLSDDAAS VSQIQSQTQS PQSVPERLEE NHELFSKSFT SVDVPVIVNG KDEMHDVEDE LAQRVSR LTT STTIENIEIT IKSPDRTEEV LSPDGSPSKS PSK KKKK FRT PSFLKKNKKK EKVEA
<b>Source</b>	Yeast
<b>Target Names</b>	Add3
<b>Protein Names</b>	Recommended name: Gamma-adducin Alternative name(s): Adducin-like protein 70 Protein kinase C-binding protein 35H
<b>Expression Region</b>	2-705
<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>	Adducins are heteromeric proteins composed of different subunits referred to as adducin alpha, beta and gamma. The three subunits are encoded by distinct genes and belong to a family of membrane skeletal proteins involved in the assembly of spectrin-actin network in erythrocytes and at sites of cell-cell contact in epithelial tissues. While adducins alpha and gamma are ubiquitously



expressed, the expression of adducin beta is restricted to brain and hematopoietic tissues. Adducin, originally purified from human erythrocytes, was found to be a heterodimer of adducins alpha and beta. Polymorphisms resulting in amino acid substitutions in these two subunits have been associated with the regulation of blood pressure in an animal model of hypertension. Heterodimers consisting of alpha and gamma subunits have also been described. Structurally, each subunit is comprised of two distinct domains. The amino-terminal region is protease resistant and globular in shape, while the carboxy-terminal region is protease sensitive. The latter contains multiple phosphorylation sites for protein kinase C, the binding site for calmodulin, and is required for association with spectrin and actin. Alternatively spliced adducin gamma transcripts encoding different isoforms have been described. The functions of the different isoforms are not known.

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**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.

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**Shelf Life**

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