



Recombinant Human 5'-AMP-activated protein kinase subunit gamma-3 (PRKAG3)

Product Code	CSB-BP883379HU
Abbreviation	PRKAG3
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.	Q9UGI9
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MEPGLEHALR RTPSWSSLGG SEHQEMSFL E QENSSSWPSP AVTSSSERIR GKRRAKALRW TRQKSVEEGE PPGQGEGPRS RPAAESTGLE ATFPKTTPLA QADPAGVGTP PTGWDCCLPSD CTASAAGSST DDVELATEFP ATEAWECELE GLLEERPALC LSPQAPFPKL GWDELRLKPG AQIYMRFMQE HTCYDAMATS SKLVIFDTML EIKKAFFALV ANGVRAAPLW DSKKQSFVGM LTITDFILVL HRYRSPVLVQ IYEIEQHKIE TWREIYLQGC FKPLVSISPN DSLFEAVYTL IKNRIHRLPV LDPVSGNVLH ILTHKRLKLF LHIFGSLLPR PSFLYRTIQD LGIGTFRDLA VVLETAPILT ALDIFVDRRV SALPVVNECG QVVGLYSRFD VIHLAAQQTY NHDMSVGEA LRQRTLCEG VLSCQPHESL GEVIDRIARE QVHRLVLVDE TQHLLGVVSL SDILQALVLS PAGIDALGA
Source	Baculovirus
Target Names	PRKAG3
Protein Names	Recommended name: 5'-AMP-activated protein kinase subunit gamma-3 Short name= AMPK gamma3 Short name= AMPK subunit gamma-3
Expression Region	1-489
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 regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. This subunit is one of the gamma regulatory subunits of AMPK.



It is dominantly expressed in skeletal muscle. Studies of the pig counterpart suggest that this subunit may play a key role in the regulation of energy metabolism in skeletal muscle.

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.