



Recombinant Rat Peroxisome proliferator-activated receptor gamma coactivator 1-alpha (Ppargc1a)

Product Code	CSB-MP889889RA
Abbreviation	Ppargc1a
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.	Q9QYK2
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	MAWDMCSQDS VWSIECAAL VGEDQPLCPD LPELDLSELD VNDLDTDSFL GGLKWCSQDS EISNQYNNE PANIFEKIDE ENEANLLAVL TETLDSL PVD EDGLPSFDAL TDGDVTTDNE ASPSSMPDGT PPPQEAEEPS LLKLLAPA NTQLSYNECS GLSTQNHANH THRIRTNPAI VKTENSWSNK AKSICQQQKP QRRPCSELLK YLTTNDDPPH TKPTENRNSS RDKCASKKKS HTQPQSQHAQ AKPTTSLPL TPESPNDPKG SPFENKTIER TLSVELSGTA GLTPPTTPPH KANQDNPFKA SPKLPSCKT VVPPPTKRAR YSECSGTQGS HSTKKGPEQS ELYAQLSKSS VLSRGHEERK TKRPSLRLFG DHDYCQSVNS KTDILINISQ ELQDSRQLDF KDASCDWQGH ICSSTDSSQC YLRETLEASK QVSPCSTRKQ LQDQEIRAEL NKHFGHPSQA VFDDKVDKTS ELRDGNFSNE QFSKLPVFIN SGLAMDGLFD DSEDENDKLS YPWDGTQSYS LFDVSPSCSS FNSPCRDSVS PPKSLFSQRP QRMRSRSRSF SRHRSCSRSP YSRRSRSPG SRSSSRSCYY YESSHYRHRT HRNSPLYVRS RSRSPYSRRP RYDSYEANEH ERLKRDEYRR EYEKRESERA KQRERQKQKA IEERRVIYVG KIRPDTRTE LRDRFEVFG EIECTVNLRD DGDSYGFITY RYTCDAFAAL ENGYTLRRSN ETDFELYFCG RKQFFKSNYA DLDSNSDDFD PASTKSKYDS LDFDSSLKEA QRSLRR
Source	Mammalian cell
Target Names	Ppargc1a
Protein Names	Recommended name: Peroxisome proliferator-activated receptor gamma coactivator 1-alpha Short name= PGC-1-alpha Short name= PPAR-gamma coactivator 1-alpha Short name= PPARGC-1-alpha
Expression Region	1-796
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	<p>This protein is a transcriptional coactivator that regulates the genes involved in energy metabolism. This protein interacts with PPARgamma, which permits the interaction of this protein with multiple transcription factors. This protein can interact with, and regulate the activities of, cAMP response element binding protein (CREB) and nuclear respiratory factors (NRFs). It provides a direct link between external physiological stimuli and the regulation of mitochondrial biogenesis, and is a major factor that regulates muscle fiber type determination. This protein may be also involved in controlling blood pressure, regulating cellular cholesterol homeostasis, and the development of obesity.</p>
Reconstitution	<p>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.</p>
Shelf Life	<p>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.</p>