



# Recombinant Rat Phosphatidylinositol 3-kinase regulatory subunit alpha (Pik3r1)

<b>Product Code</b>	CSB-EP720544RA
<b>Abbreviation</b>	Pik3r1
<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>	Q63787
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	SAEGYQYRA LYDYKKEREE DIDLHLGDIL TVNKGSLVAL GFSDGQEARP EDIGWLNNGYN ETTGERGDFP GTYVEYIGRK RISPTPKPR PPRPLPVAPG SSKTEADTEQ PVLTLPLDAE QFAPPDVAPP LLIKLEAIE KKGLECSTLY RTQSSSNPAE LRQLLDCDPP SVDLDVFDEH VLADAFKRYL ADLPNPVIPV AVYNEMMSLA QEVPSEDIYI QLLKKLIRSP NIPHQYWLTL QYLLKHFFKL SQASSKNLLN ARALSEIFSH VLFRFPAASS DNTEHLIKAV ELLISAEWSE RQPAPALPPK PPKPTSIANN SMNNMMSLQD AEWYWGDISR EEVNEKLRDT ADGTFLVRDA STKMHGDTL TLRKGGNNKL IKIFHRDGKY GFSDPLTFNS VVELINHYRN ESLAQYNPKL DVKLLYPVSK YQQDQVVKED NIEAVGKKLH EYNTQFQEKs REYDRLYEEY TRTSQEIQMK RTAIEAFNDT IKIFEEQCHP QERYSKDYIE KFKREGNEKE IQRIMHNDK LKSRISEIID SRRRLEEDLK KQAAEYREID KRMNSIKPDL IQLRKTRDQY LMWLTQKGVR QKKLNEWLGN ENTEDQYSLV DDEDELPHHD EKTWNVGSSN RNKAENLLRG KRDGTFLVRE SSKQGCYACS VVDGGEVKHC VINKTATGYG FAEPYNLYSS LKELVLHYQH TSLVQHNDL NVTLAYPVYA QQR
<b>Source</b>	E.coli
<b>Target Names</b>	Pik3r1
<b>Protein Names</b>	Recommended name: Phosphatidylinositol 3-kinase regulatory subunit alpha Short name= PI3-kinase regulatory subunit alpha Short name= PI3K regulatory subunit alpha Short name= PtdIns-3-kinase regulatory subunit alpha Alternative na
<b>Expression Region</b>	2-724
<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>	Phosphatidylinositol 3-kinase phosphorylates the inositol ring of



phosphatidylinositol at the 3-prime position. The enzyme comprises a 110 kD catalytic subunit and a regulatory subunit of either 85, 55, or 50 kD. This gene encodes the 85 kD regulatory subunit. Phosphatidylinositol 3-kinase plays an important role in the metabolic actions of insulin, and a mutation in this gene has been associated with insulin resistance. Alternative splicing of this gene results in three transcript variants encoding different isoforms.

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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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