



# Recombinant Human Phosphatidylinositol 3-kinase regulatory subunit alpha (PIK3R1)

<b>Product Code</b>	CSB-EP018003HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P27986
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>SAEGYQYRA LYDYKKEREE DIDLHLGDIL TVNKGSLVAL GFSDGQEARP            EEIGWLNQYN ETTGERGDFP GTYVEYIGRK KISPPTPKPR PPRPLPVAPG            SSKTEADVEQ QALTLPLAE QFAPPDIAPP LLIKLVAEIE KKGLECYSTLY            RTQSSSNLAE LRQLLCDTP SVDLEMIDVH VLADAFKRYL LDLPNPVIPA            AVYSEMISLA PEVQSSEYI QLLKKLIRSP SIPHQYWLTL QYLLKHFFKL            SQTSSKNLLN ARVLSEIFSP MLFRFSAASS DNTENLIKVI EILISTEWNE            RQPAPALPPK PPKPTTVANN GMNNNMSLQD AEWYWGDISR EEVNEKLRDT            ADGTFLVRDA STKMHGDTL TLRKGGNNKL IKIFHRDGKY GFSDPLTFSS            VVELINHYRN ESLAQYNPKL DVKLLYPVSK YQQDQVVKED NIEAVGKKLH            EYNTQFQEKs REYDRLYEEY TRTSQEIQMK RTAIEAFNET IKIFEEQCQT            QERYSKEYIE KFKREGNEKE IQRIMHNYDK LKSRISEIID SRRRLEEDLK            KQAAEYREID KRMNSIKPDL IQLRKTRDQY LMWLTQKGVR QKKLNEWLGN            ENTEDQYSLV EDDDLPHHD EKTWNVGSSN RNKAENLLRG KRDGTFLVRE            SSKQGCYACS VVDGGEVKHC VINKTATGYG FAEPYNLYSS LKELVLHYQH            TSLVQHNDL NVTLAYPVYA QQRR</p>
<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**

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.