

PIP4K2B Protein, Human, Recombinant (His)

General Information

Synonyms:	Phosphatidylinositol 5-phosphate 4-kinase type II beta (PI(5)P 4-kinase type II beta; PIP4KII-beta); Diphosphoinositide kinase 2-beta; 1-phosphatidylinositol 5-phosphate 4-kinase 2-beta; PIP5K2B; PtdIns(5)P-4-kinase isoform 2-beta; PIP4K2B; Phosphatidylinositol 5-phosphate 4-kinase type-2 beta
Protein Construction:	2-416 aa
Species:	Human
Expression Host:	E. coli
Accession:	P78356
Molecular Weight:	53.3 kDa (predicted)
AA Sequence:	SSNCTSTTAVAVAPLSASKTKTKKKHFVCQKVKLFRASEPILSVLMWGVNHTINELSNVPVPMMLPDDFKAY SKIKVDNHLFNKENLPSRFKFKKEYCPMVFRNLRRERFGIDDQDYQNSVTRSAPINSQSGRCGTRFLTYYDRRF VIKTVSSEDVAEMHNILKKYHQFIVECHGNTLLPQFLGMYRLTVDGVETYMVVTRNVFVSHRLTVHRKYDLKGS TVAREASDKEKAKDLPTFKDNDNFLNEGQKLHVGEESKKNFLEKLRDVEFLAQLKIMDYSLLVGIHDVDRAEQ EEMEVEERAEEDECENDGVGGNLLCSYGTTPDPSGNLLSFPFRFFGPGFDPVSDVYAMKSHESPKEVYFM AIIDILTPYDTKKKAAHAAKTVKHGAGAEISTVNPEQYSKRFNEFMSNILT

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Participates in the biosynthesis of phosphatidylinositol 4,5-bisphosphate. Preferentially utilizes GTP, rather than ATP, for PI(5)P phosphorylation and its activity reflects changes in direct proportion to the physiological GTP concentration. Its GTP-sensing activity is critical for metabolic adaptation. PIP4Ks negatively regulate insulin signaling through a catalytic-independent mechanism. They interact with PIP5Ks and suppress PIP5K-mediated PtdIns(4,5)P₂ synthesis and insulin-dependent conversion to PtdIns(3,4,5)P₃.

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