Recombinant Human PIP4K2A Kinase

Catalog No.: RP03401LQ

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Sequence Information

Species
Human

Gene ID
5305

Swiss Prot
P48426

Tags
No tag

Synonyms
PIP4K2A; PI5P4KA; PIP5K2; PIP5K2A; Phosphatidylinositol 5-phosphate 4-kinase type-2 alpha; PI5P4Kalpha; PIP4KII-alpha

Product Information

Source
E. coli

Purification
≥ 90 % as determined by SDS-PAGE;≥ 90 % as determined by HPLC.

Calculated MW
46.2 kDa

Observed MW
45-55 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Supplied as a 0.22 μm filtered solution in 50 mM Tris-HCl, 200 mM NaCl, 20% glycerol, 1 mM DTT. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution
Please use running water to thaw it quickly.

Background

Phosphatidylinositol-5-phosphate 4-kinase type-2 alpha is an enzyme that in humans is encoded by the PIP4K2A gene. The protein encoded by this gene is one of a family of enzymes capable of catalyzing the phosphorylation of phosphatidylinositol-4-phosphate on the fifth hydroxyl of the myo-inositol ring to form phosphatidylinositol-4,5-bisphosphate. Through genome wide association studies (GWAS), some of the single nucleotide polymorphisms (SNPs) located in this gene have been noticed to be significantly associated with susceptibility of childhood acute lymphoblastic leukaemia in ethnically diverse populations. THZ-P1-2 (covalent inhibitor) as well as BAY-091 and BAY-297 (reversible inhibitors) have been reported as potent and selective PIP4K2A inhibitors.

Basic Information

Description
Recombinant Human PIP4K2A Kinase is produced by E. coli expression system. The target protein is expressed with sequence (Ala2-Thr406) of Human PIP4K2A (Accession #P48426) fused with No tag.

Activity
The activity of PIP4K2A is based on the ADP-GLO kinase activity assay quantifies kinase activity by measuring the conversion of ATP to ADP catalyzed by the kinase. Specific reagents are used to convert the ADP in the reaction back to ATP, resulting in the production of a luminescent signal.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

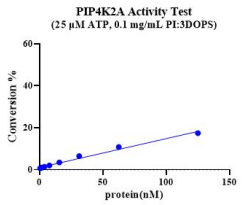
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

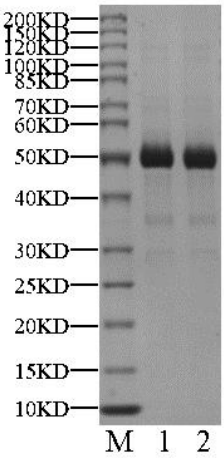
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Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



The activity of PIP4K2A is based on the ADP-GLO kinase activity assay quantifies kinase activity by measuring the conversion of ATP to ADP catalyzed by the kinase. Specific reagents are used to convert the ADP in the reaction back to ATP, resulting in the production of a luminescent signal.



Recombinant Human PIP4K2A Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.