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Product Information

PIP5K1B, active, GST-tagged, human
PRECISIO® Kinase
recombinant, expressed in *Sf*9 cells

Catalog Number **SRP5297**
Storage Temperature –70 °C

Synonyms: MSS4, STM7

Product Description

PIP5K1B (phosphatidylinositol-4-phosphate 5-kinase, type I, beta) is a member of the phosphatidylinositol-4-phosphate 5-kinase family. The *PIP5K1B* gene contains 17 exons and spans more than 300 kb. The seventeenth exon was found by RT-PCR and is derived from the 3′ untranslated region of the *PRKACG* gene, which is located on 9q13 ~3 kb downstream of the STM7.I 3′ untranslated region.[1] The overexpression of PIP5K1B in COS-7 cells induces an increase in short actin fibers and a decrease in actin stress fibers.[2]

Recombinant full-length human PIP5K1B was expressed by baculovirus in *Sf*9 insect cells using an N-terminal GST-tag. The gene accession number is NM_003558. It is supplied in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~96 kDa

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at –70 °C is recommended. After opening, aliquot into smaller quantities and store at –70 °C. Avoid repeated handling and multiple freeze/thaw cycles.

Figure 1.
SDS-PAGE Gel of Typical Lot:
≥70% (SDS-PAGE, densitometry)

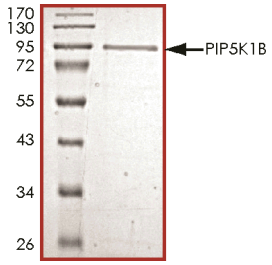
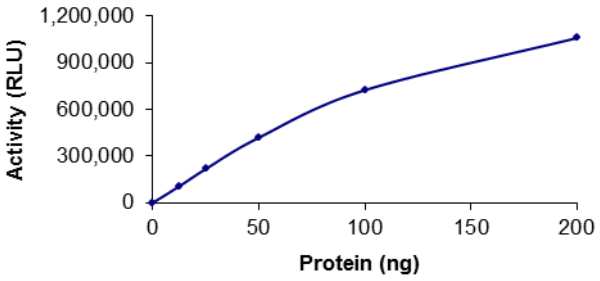


Figure 2.
Specific Activity of Typical Lot: 160–253 nmole/min/mg



Kinase activity was determined with a luminescent assay procedure.

References

1. Pook, M.A. et al., Exon-intron structure of a 2.7-kb transcript of the STM7 gene with phosphatidyl-inositol-4-phosphate 5-kinase activity. Genomics, **42**, 170-172 (1997).
2. Ishihara, H. et al., Type I phosphatidylinositol-4-phosphate 5-kinases: cloning of the third isoform and deletion/substitution analysis of members of this novel lipid kinase family. J. Biol. Chem., **273**, 8741-8748 (1998).

RC,MAM 12/12-1