

Recombinant Human PIP5K1A (N-GST tag)

Cat No:HR2R1866

For research use only

Overview

Quantity	10 ?g
Gene Symbol	PIP5K1A
Gene ID	N/A
Accession	BC007833
Alternative Name	RP11-68I18.9
Species	Human
Source	Insect cells
Description	?PIP5K1A or phosphatidylinositol-4-phosphate 5-kinase 1 alpha phosphorylates phosphatidylinositol-4-phosphate to form phosphatidylinositol 4,5-bisphosphate. PIP5K1 is required for Wnt3a-induced LRP6 phosphorylation at ser1490 in mammalian cells. Wnt3a stimulates the formation of phosphatidylinositol 4,5-bisphosphates through 'frizzled' and 'dishevelled', the latter of which directly interacts with and activated PIP5KI. PIP5K1A-mediated PIP production is crucial for HIV-1 entry and the early steps of infection in permissive lymphocytes. Overexpression of wild-type PI4P5K1A increases HIV-1 Env-mediated PIP production and enhances viral replication in primary lymphocytes.
Functions	The specific activity of PIP5K1A was determined to be 1310 nmol /min/mg as per activity assay protocol.
Formulation	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Solubility	N/A
Appearance	Liquid
Molecular Weight	86
Purity	70% - 90%
Concentration	
Shipping Condition	Dry Ice
Storage Condition	Store product at ?70?C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.