



Recombinant Protein Technical Manual
Recombinant Human IHPK1 Protein (His & GST Tag)
RPES0725

Product Data:

Product SKU: RPES0725

Size: 50µg

Species: Human

Expression host: Baculovirus-Insect Cells

Uniprot: Q92551

Protein Information:

Molecular Mass: 78 kDa

AP Molecular Mass: 88 kDa

Tag: N-His & GST

Bio-activity:

Purity: > 85 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as sterile 20mM Tris, 500mM NaCl, pH 8.0, 10% gly

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: IHPK1;PiUS

Immunogen Information:

Sequence: Met 1-Gln 441

Background:

IHPK1 is a inositol hexaphosphate kinase (IHPK) protein which belongs to the inositol phosphokinase (IPK) family. IHPK proteins are likely responsible for the conversion of inositol hexakisphosphate (InsP6) to diphosphoinositol pentakisphosphate (InsP7/PP-InsP5). IHPK1 may also convert 1,3,4,5,6-pentakisphosphate (InsP5) to PP-InsP4 and affect the growth suppressive and apoptotic activities of interferon-beta in some ovarian cancers. During cell death, IHPK1 activity is enhanced, and intracellular InsP7 level is augmented. The distribution of IHPK1 or another predisposing gene affected by position effect of translocation may explain the T2DM phenotype at least in this family.