# Recombinant Human IHPK1 Protein (His & GST Tag)

**Catalog No.** PKSH030322

***Note:*** Centrifuge before opening to ensure complete recovery of vial contents.

## Description

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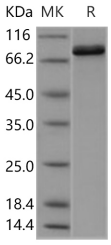
|---|---|
| **Synonyms** | IHPK1;PiUS |
| **Species** | Human |
| **Expression Host** | Baculovirus-Insect Cells |
| **Sequence** | Met 1-Gln 441 |
| **Accession** | Q92551-1 |
| **Calculated Molecular Weight** | 78.0 kDa |
| **Observed molecular weight** | 88 kDa |
| **Tag** | N-His-GST |
| **Bioactivity** | Not validated for activity |

## Properties

| | |
|---|---|
| **Purity** | > 85 % as determined by reducing SDS-PAGE. |
| **Endotoxin** | < 1.0 EU per μg of the protein 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 solution of 20mM Tris, 500mM NaCl, pH 8.0, 10% glycerol |
| **Reconstitution** | Not Applicable |

## Data




> 85 % as determined by reducing SDS-PAGE.

## 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.



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