

IP6K1/IHPK1 Protein, Human (sf9, His-GST)

Cat. No.:	HY-P77427
Synonyms:	Inositol hexakisphosphate kinase 1; InsP6 kinase 1; IHPK1; KIAA0263
Species:	Human
Source:	Sf9 insect cells
Accession:	Q92551 (M1-Q441)
Gene ID:	9807
Molecular Weight:	Approximately 88 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, pH 8.0, 10% gly
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background

The IP6K1/IHPK1 protein is an enzyme that plays a crucial role in inositol phosphate metabolism. It converts inositol hexakisphosphate (InsP6) to diphosphoinositol pentakisphosphate (InsP7/PP-InsP5), representing a key step in the synthesis of higher inositol polyphosphates. Additionally, IP6K1/IHPK1 catalyzes the conversion of 1,3,4,5,6-pentakisphosphate (InsP5) to PP-InsP4. These enzymatic activities contribute to the intricate regulation of inositol phosphate signaling, which is involved in diverse cellular processes such as cell growth, vesicular trafficking, and ion channel regulation. The conversion of InsP6 to InsP7/PP-InsP5 and InsP5 to PP-InsP4 highlights the significance of IP6K1/IHPK1 in modulating inositol phosphate levels, thereby influencing various cellular functions (

Caution: Product has not been fully validated for medical applications. For research use only.

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