PIM3 Protein, Human (Sf9, GST)

Cat. No.: HY-P701749
Synonyms: PIM3; Serine/threonine-protein kinase pim-3
Species: Human
Source: Sf9 insect cells
Accession: Q86V86 (L2-L326)
Gene ID: 415116
Molecular Weight:

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 μm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	Please use rapid thawing with running water to thaw the protein.
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 PIM3 protein, a proto-oncogene with serine/threonine kinase activity, plays a pivotal role in preventing apoptosis and promoting cell survival and protein translation, potentially contributing to tumorigenesis through various mechanisms. It delivers survival signals by phosphorylating BAD, leading to the release of the anti-apoptotic protein Bcl-X(L). PIM3 regulates cell cycle progression, protein synthesis, and MYC transcriptional activity, highlighting its multifaceted impact on tumorigenesis. Additionally, it negatively regulates insulin secretion by inhibiting the activation of MAPK1/3 (ERK1/2) through SOCS6. Beyond its role in tumorigenesis, PIM3 is involved in the control of energy metabolism and regulates AMPK activity, modulating MYC and PPARGC1A protein levels and influencing cell growth.

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