

VRK3 Protein, Human (Sf9, His, GST)

Cat. No.:	HY-P701725
Synonyms:	VRK3; Inactive serine/threonine-protein kinase VRK3; Serine/threonine-protein pseudokinase VRK3; Vaccinia-related kinase 3
Species:	Human
Source:	Sf9 insect cells
Accession:	Q8IV63 (I2-P474)
Gene ID:	51231
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.
Reconstitution	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 VRK3 protein, despite its inactive kinase state, plays a crucial role in the regulation of ERK activity by promoting the phosphatase activity of DUSP3. This interaction is pivotal, as DUSP3 specifically dephosphorylates and inactivates ERK within the nucleus. In addition to its association with DUSP3, VRK3 interacts with the small GTPase RAN, indicating a network of molecular interactions. Through these associations, VRK3 emerges as a key modulator in the intricate signaling pathways involved in the control of ERK activity and cellular processes within the nucleus.
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Caution: Product has not been fully validated for medical applications. For research use only.

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