

# Recombinant Human Vaccinia Related Kinase 1, GST-tagged

Cat. No. VRK1-1117H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human VRK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	VRK1 is a member of the vaccinia-related kinase (VRK) family of serine/threonine protein kinases. VRK1 is widely expressed in human tissues and actively dividing cells, such as those in testis, leukocytes, fetal liver and carcinomas. VRK1 regulate cell proliferation and phosphorylates histone, casein, and the transcription factors ATF2 (activating transcription factor 2) and c-JUN. The spinal muscular atrophy with pontocerebellar hypoplasia is caused by a mutation in the VRK1 gene.
<b>Applications</b>	Kinase Assay; Western Blot
<b>Molecular Weight</b>	71 kDa
<b>Expression System</b>	Sf9 insect cells using baculovirus
<b>Form</b>	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.
<b>Purity</b>	> 95 %

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<b>Concentration</b>	0.1 ug/ul
<b>Sequences</b>	Full-length
<b>Storage</b>	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	VRK1 vaccinia related kinase 1 [ Homo sapiens ]
<b>Official Symbol</b>	VRK1
<b>Synonyms</b>	VRK1; vaccinia related kinase 1; PCH1; MGC117401; MGC138280; MGC142070; serine/threonine-protein kinase VRK1; vaccinia-related kinase 1; vaccinia virus B1R-related kinase 1; EC 2.7.11.1
<b>Gene ID</b>	7443
<b>mRNA Refseq</b>	NM_003384
<b>Protein Refseq</b>	NP_003375
<b>MIM</b>	602168
<b>UniProt ID</b>	Q99986
<b>Chromosome Location</b>	14q32
<b>Function</b>	ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase

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activity; transferase activity

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