

## Recombinant Human VRK3, GST-tagged

Cat. No. VRK3-268H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human VRK3 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>	<p>VRK3 is a member of the vaccinia-related kinase (VRK) family of serine/threonine protein kinases which has substitutions at several residues within the ATP binding motifs that in other kinases have been shown to be required for catalysis. Profound changes to the active site region underlie the loss of catalytic activity of VRK3 since it cannot bind ATP because of residue substitutions in the binding pocket. VRK3 is widely expressed in human tissues and the protein localizes to the nucleus. VRK3 regulates several transcription factors, nuclear envelope assembly, and chromatin condensation and is also required for cell cycle progression.</p>
<b>Form</b>	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
<b>Molecular Mass</b>	~80 kDa
<b>Purity</b>	>95% by densitometry
<b>Applications</b>	Western Blot

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Storage** Store product at –70 centigrade. 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.

**Concentration** 0.1 µg/µl

## GENE INFORMATION

**Gene Name** [VRK3 vaccinia related kinase 3 \[ Homo sapiens \]](#)

**Official Symbol** VRK3

**Synonyms** VRK3; vaccinia related kinase 3; inactive serine/threonine-protein kinase VRK3; vaccinia-related kinase 3; serine/threonine-protein kinase VRK3; serine/threonine-protein pseudokinase VRK3;

**Gene ID** [51231](#)

**mRNA Refseq** [NM\\_001025778](#)

**Protein Refseq** [NP\\_001020949](#)

**UniProt ID** [Q8IV63](#)

**Chromosome Location** 19q13.33

**Function** ATP binding; nucleotide binding; protein kinase activity; protein phosphatase binding; transferase activity, transferring phosphorus-containing groups;

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