

Recombinant Human Vaccinia Related Kinase 1, GST-His

Cat. No. VRK1-706H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human VRK1, Amino acids M1-K396, N-terminally fused to GST-HIS6-Thrombin cleavage site, was produced in Sf9 cells. MW = 75,142 Da.
Species	Human
Source	Sf9 Cells
Protein Length	1-396 a.a.
Description	This gene encodes a member of the vaccinia-related kinase (VRK) family of serine/threonine protein kinases. This gene is widely expressed in human tissues and has increased expression in actively dividing cells, such as those in testis, thymus, fetal liver, and carcinomas. Its protein localizes to the nucleus and has been shown to promote the stability and nuclear accumulation of a transcriptionally active p53 molecule and, in vitro, to phosphorylate Thr18 of p53 and reduce p53 ubiquitination.
Purification	One-step affinity purification using GSH-agarose.
Product Identity	VRK1, was confirmed as VRK1 by mass spectroscopy LC-ESI-MS/MS (Protagen AG, Germany).
Storage Buffer	50 mM Tris-HCl, pH 8.0; 100 mM NaCl, 5 mM DTT, 15 mM reduced glutathione, 20% glycerol.
Concentration	0.269 µg/µl (Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as

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standard protein).

Specific Activity 30 pmol/μg×min.

Storage -80°C. Avoid repeated freeze-thaw cycles!

GENE INFORMATION

Gene Name [VRK1 vaccinia related kinase 1 \[Homo sapiens \]](#)

Synonyms 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

Gene ID [7443](#)

mRNA Refseq [NM_003384](#)

Protein Refseq [NP_003375](#)

MIM [602168](#)

UniProt ID [Q99986](#)

Chromosome Location 14q32

Function ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity

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