

Recombinant Human Vaccinia Related Kinase 3, His-tagged

Cat. No. VRK3-1340H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human VRK3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
ProteinLength	1-474aa
Description	VRK3, also known as inactive serine/threonine-protein kinase, belongs to the protein kinase superfamily. In both human and mouse, this gene has substitutions at several residues within the ATP binding motifs that in other kinases have been shown to be required for catalysis. In vitro assays indicate the protein lacks phosphorylation activity. The protein, however, likely retains its substrate binding capability.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT.
Molecular Mass	55.3 kDa (497aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMISFCPD CGKSIQAAFK FCPYCGNSLP VEEHVGSQTF VNPHVSSFQG SKRGLNSSFE TSPKKVKWSS TVTSPRLSLF SDGDSSSEED TLSSERSKG SGSRPPTPKS SPQKTRKSPQ VTRGSPQKTS CSPQKTRQSP QTLKRSRVTT SLEALPTGTV LTDKSGRQWK LKSFQTRDNQ GILYEAAPTS TLTCDSGPQK QKFSCLKLDAK DGRLFNEQNF FQRAAKPLQV

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NKWKKLYSTP LLAIPTCMGF GVHQDKYRFL VLPSLGRSLQ SALDVSPKHV
 LSERSVLQVA CRLDDALEFL HENEYVHGNV TAENIFVDPE DQSQVTLAGY
 GFAFRYCPSG KHVAYVEGSR SPHEGDLEFI SMDLHKGCGP SRRSDLQSLG
 YCMLKWLYGF LPWTNCLPNT EDIMKQKQKF VDKPGPFVGP CGHWIRPSET
 LQKYLKVVMA LTYEEKPPYA MLRNNLEALL QDLRVSPYDP IGLPMVP

Purity >85% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

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](#)

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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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