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 SDGDSSESED TLSSSERSKG SGSRPPTPKS SPQKTRKSPQ VTRGSPQKTS CSPQKTRQSP QTLKRSRVTT SLEALPTGTV LTDKSGRQWK LKSFQTRDNQ GILYEAAPTS TLTCDSGPQK QKFSLKLDAK DGRLFNEQNF FQRAAKPLQV

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	NKWKKLYSTP LLAIPTCMGF GVHQDKYRFL VLPSLGRSLQ SALDVSPKHV LSERSVLQVA CRLLDALEFL 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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