

## Recombinant Human VRK3 protein, His-tagged

**Cat. No.** VRK3-3010H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human VRK3 fused with His tag at C-terminal was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | Inactive serine/threonine-protein kinase VRK3 is a 474 amino acids protein that belongs to the protein kinase superfamily, CK1 Ser/Thr protein kinase family and VRK subfamily. It contains a protein kinase domain. 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.      |
| <b>Form</b>             | Supplied as a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MISFCPDCGKSIQAAFKFCPYCGNSLPVEEHVGSQTFVNPVSSSFQGSKRGLNSSF<br>ETSPKKVKW SSTVTSPRLSLFSDGDSSESEDTLSSSERSKSGSGSRPPTPKSSPQKT<br>RKSPQVTRGSPQKTSCSP QKTRQSPQTLKRSRVTTSLALPTGTVLTDKSGRQWK<br>LKSFQTRDNQGILYEAAPTSTLTCDSGP QKQKFSLKLDAGDGRFLNEQNFFQRAAK<br>PLQVNKWKKLYSTPLLAIPTCMGFGVHQDKYRFLVLP SLGRSLQSALDVSPKHVLS<br>ERSVLQVACRLLEFLHENEYVHGNVTAENIFVDPEDQSQVTLA GYGFAFRYCP<br>SGKHVAYVEGSRSPHEGDLEFISMDLHKGCGPSRRSDLQSLGYCMLKWLYGFLPW<br>TNCLPNTEDIMKQKQKLPWDSFVDHHHHHH |

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|                  |                                                                                                 |
|------------------|-------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b> | Less than 0.1 ng/g (1 IEU/g) as determined by LAL test.                                         |
| <b>Purity</b>    | Greater than 95% as determined by reducing SDS-PAGE.                                            |
| <b>Storage</b>   | Store at< -20 centigrade, stable for 6 months after receipt.Please minimize freeze-thaw cycles. |

## GENE INFORMATION

|                            |                                                                                                                                                                                              |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | VRK3 vaccinia related kinase 3 [ Homo sapiens ]                                                                                                                                              |
| <b>Official Symbol</b>     | VRK3                                                                                                                                                                                         |
| <b>Synonyms</b>            | 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; |
| <b>Gene ID</b>             | 51231                                                                                                                                                                                        |
| <b>mRNA Refseq</b>         | NM_001025778                                                                                                                                                                                 |
| <b>Protein Refseq</b>      | NP_001020949                                                                                                                                                                                 |
| <b>MIM</b>                 |                                                                                                                                                                                              |
| <b>UniProt ID</b>          | Q8IV63                                                                                                                                                                                       |
| <b>Chromosome Location</b> | 19q13.33                                                                                                                                                                                     |
| <b>Function</b>            | ATP binding; nucleotide binding; protein kinase activity; protein phosphatase binding; transferase activity, transferring phosphorus-containing groups;                                      |

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