

## Active Recombinant Human VRK1, GST-tagged

**Cat. No.** VRK1-1508H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full-length human VRK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | Full length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | VRK1 is a member of the vaccinia-related kinase (VRK) family of serine/threonine protein kinases. VRK1 is widely expressed in human tissues and actively dividing cells, such as those in testis, leukocytes, fetal liver and carcinomas. VRK1 regulate cell proliferation and phosphorylates histone, casein, and the transcription factors ATF2 (activating transcription factor 2) and c-JUN. The spinal muscular atrophy with pontocerebellar hypoplasia is caused by a mutation in the VRK1 gene. |
| <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>Bio-activity</b>     | 2 nmol/min/mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | ~71 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>           | >95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

 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

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>        | Kinase Assay, Western Blot                                                                                                                                                    |
| <b>Storage</b>             | Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.              |
| <b>Concentration</b>       | 0.1µg/µl                                                                                                                                                                      |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                               |
| <b>Gene Name</b>           | VRK1 vaccinia related kinase 1 [ Homo sapiens ]                                                                                                                               |
| <b>Official Symbol</b>     | VRK1                                                                                                                                                                          |
| <b>Synonyms</b>            | VRK1; vaccinia related kinase 1; serine/threonine-protein kinase VRK1; vaccinia-related kinase 1; vaccinia virus B1R-related kinase 1; PCH1; MGC117401; MGC138280; MGC142070; |
| <b>Gene ID</b>             | 7443                                                                                                                                                                          |
| <b>mRNA Refseq</b>         | NM_003384                                                                                                                                                                     |
| <b>Protein Refseq</b>      | NP_003375                                                                                                                                                                     |
| <b>MIM</b>                 | 602168                                                                                                                                                                        |
| <b>UniProt ID</b>          | Q99986                                                                                                                                                                        |
| <b>Chromosome Location</b> | 14q32                                                                                                                                                                         |
| <b>Function</b>            | ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase                                                                                             |

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