

## Recombinant Mouse VRK1 Protein (1-140 aa), His-Myc-tagged

Cat. No. VRK1-2229M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse VRK1 Protein (1-140 aa) is produced by Yeast expression system. This protein is fused with a 10xHis tag at the N-terminal and a Myc tag at the C-terminal. Research Area: Cell Biology. Protein Description: Full Length.
<b>Species</b>	Mouse
<b>Source</b>	Yeast
<b>ProteinLength</b>	1-140 aa
<b>Description</b>	Serine/threonine kinase involved in Golgi disassembly during the cell cycle: following phosphorylation by PLK3 during mitosis, required to induce Golgi fragmentation. Acts by mediating phosphorylation of downstream target protein. Phosphorylates 'Thr-18' of p53/TP53 and may thereby prevent the interaction between p53/TP53 and MDM2. Phosphorylates casein and histone H3. Phosphorylates BANF1: disrupts its ability to bind DNA, reduces its binding to LEM domain-containing proteins and causes its relocalization from the nucleus to the cytoplasm. Phosphorylates ATF2 which activates its transcriptional activity.
<b>Form</b>	Tris-based buffer,50% glycerol
<b>Molecular Mass</b>	53.7 kDa
<b>AA Sequence</b>	MPRVKAAQAGRPGPAKRRLAEQFAAGEVLTDMSRKEWKLGLPIGQGGFGCIYLAD TNSSKPVGSDAPCVVKVEPSDNGPLFTELKFYQRAAKPEQIQKWIRTHKLKYLGVPK

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YWGSGLHDKNGKSYRFMIMDRFGSDLQKIYEANAKRFSRKTVLQLSLRILDILEYIHE  
 HEYVHGDIKASNLLLSHKNPDQVYLVDYGLAYRYCPDGVHKEYKEDPKRCHDGTLE  
 FTSIDAHKGVAPSRRGDLEILGYCMIQWLSGCLPWEDNLKDPNYVRDSKIRYRDNVA  
 ALMEKCFPEKNKPGEIAKYMESVKLLEYTEKPLYQNLRDILLQGLKAIGSKDDGKLDLDF  
 SAVENGSVKTRPASKKRKKEAEESA VCAVEDMECSDTQVQEAQAQTRSVESQGAIH  
 GSMSQPAAGCSSSDSSRRQQHLGLEQDMLRLDRRGSRTTRKKAQK

**Purity** > 90% as determined by SDS-PAGE.

**Notes** Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

**Storage** The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

**Concentration** A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

## GENE INFORMATION

**Gene Name** [Vrk1 vaccinia related kinase 1 \[ Mus musculus \]](#)

**Official Symbol** [VRK1](#)

**Synonyms** VRK1; vaccinia related kinase 1; serine/threonine-protein kinase 51PK; 51PK;

**Gene ID** [22367](#)

**mRNA Refseq** [NM\\_001029843](#)

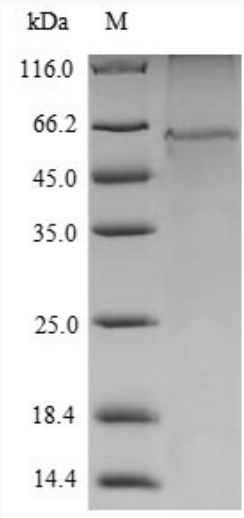
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Protein Refseq NP\_001025014

UniProt ID Q80X41



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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