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

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

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	Yeast
ProteinLength	1-140 aa
Description	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.
Form	Tris-based buffer,50% glycerol
Molecular Mass	53.7 kDa
AA Sequence	MPRVKAAQAGRPGPAKRRLAEQFAAGEVLTDMSRKEWKLGLPIGQGGFGCIYLAD TNSSKPVGSDAPCVVKVEPSDNGPLFTELKFYQRAAKPEQIQKWIRTHKLKYLGVPK

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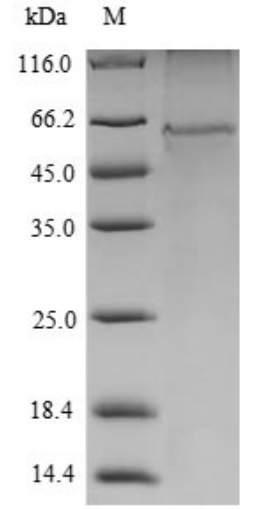
	YWGSGLHDKNGKSYRFMIMDRFGSDLQKIYEANAKRFSRKTVLQLSLRILDILEYIHE HEYVHGDIKASNLLLSHKNPDQVYLVDYGLAYRYCPDGVHKEYKEDPKRCHDGTLE FTSIDAHKGVAPSRRGDLEILGYCMIQWLSGCLPWEDNLKDPNYVRDSKIRYRDNVA ALMEKCFPEKNKPGEIAKYMESVKLLEYTEKPLYQNLRDILLQGLKAIGSKDDGKLDF SAVENGSVKTRPASKKRKKEAEESAVCAVEDMECSDTQVQEAAQTRSVESQGAIH GSMSQPAAGCSSSDSSRRQQHLGLEQDMLRLDRRGSRTRKKAQK
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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