

VRK1 Protein, Mouse, Recombinant (His & Myc)

General Information

Synonyms:	Vrk1;Serine/threonine-protein kinase 51PK;Vaccinia-related kinase 1;Serine/threonine-protein kinase VRK1
Protein Construction:	1-440 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	Q80X41
Molecular Weight:	55.2 kDa (predicted)
AA Sequence:	MPRVKAAQAGRPGPAKRRLAEQFAAGEVLTDMSRKEWKLGLPIGQGGFGCIYLADTNSSKPVGSDAPCVVK VEPSDNGPLFTELKQYQRAAKPEQIQKWIRTHKLKYLGVPKYWGSLHDKNGKSYRFMIMDRFGSDLQKIYE ANAKRFSRKTVLQLSLRILDILEYIHEHEYVHGDIKASNLLLSHKNPQVYLVVDYGLAYRYCPDGVHKEYKEDP KRCHDGTLEFTSIDAHKGVAPSRRGDLEILGYCMIQWLSGCLPWEDNLKDPNYVRDSKIRYRDNVAALMEKC FPEKNKPGEIAKYMESVKLLEYTEKPLYQNLRDILLQGLKAIGSKDDGKLDFAVENGSVKTRPASKKRKKEAE ESAVCAVEDMECSDTQVQEEAAQTRSVESQGAIHGMSQPAAGCSSSDSSRRQQHLGLEQDMLRLDRRGSR TRKKAQK

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

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.

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