

Active Recombinant Human VRK1, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant full-length human VRK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	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.
Form	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.
Bio-activity	2 nmol/min/mg
Molecular Mass	~71 kDa
Purity	>95%

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

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