

Datasheet for ABIN7556015
VRK1 Protein (AA 1-396) (His tag)



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Overview

Quantity:	1 mg
Target:	VRK1
Protein Characteristics:	AA 1-396
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This VRK1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant VRK1 Protein expressed in mammalian cells.
Sequence:	<p>MPRVKAAQAG RQSSAKRHLA EQFAVGEIIT DMAKKEWKVG LPIGQGGFGC IYLADMNSSE SVGSDAPCVV KVEPSDNGPL FTELKFYQRA AKPEQIQKWI RTRKCLKYLGV PKYWGSGLHD KNGKSYRFMI MDRFGSDLQK IYEANAKRFS RKTVLQLSLR ILDILEYIHE HEYVHGDIKA SNLLLNYKNP DQVYLVYDGL AYRYCPEGVH KEYKEDPKRC HDGTIEFTSI DAHNGVAPSR RGDLEILGYC MIQWLTGHLP WEDNLKDPKY VRDSKIRYRE NIASLMDKCF PEKNKPGEIA KYMETVKLLD YTEKPLYENL RDILLQGLKA IGSKDDGKLD LSVVENGGLK AKTITKKRKK EIEESKEPGV EDTEWSNTQT EEAIQTRSRT RKRIVQK Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Product Details

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

VRK1

Alternative Name:

VRK1 ([VRK1 Products](#))

Background:

Serine/threonine-protein kinase VRK1 (EC 2.7.11.1) (Vaccinia-related kinase 1),FUNCTION: Serine/threonine kinase involved in cell cycle, nuclear condensation and transcription regulation (PubMed:14645249, PubMed:18617507, PubMed:19103756). Involved in Golgi disassembly during the cell cycle: following phosphorylation by PLK3 during mitosis, required to induce Golgi fragmentation (PubMed:19103756). Phosphorylates 'Thr-18' of p53/TP53 and may thereby prevent the interaction between p53/TP53 and MDM2 (PubMed:10951572). Phosphorylates KAT5 in response to DNA damage, promoting KAT5 association with chromatin and histone acetyltransferase activity (PubMed:33076429). 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 (PubMed:16495336). Phosphorylates ATF2 which activates its transcriptional activity (PubMed:15105425). {ECO:0000269|PubMed:10951572, ECO:0000269|PubMed:14645249, ECO:0000269|PubMed:15105425, ECO:0000269|PubMed:16495336, ECO:0000269|PubMed:18617507,

Target Details

ECO:0000269|PubMed:19103756, ECO:0000269|PubMed:33076429}.

Molecular Weight: 45.5 kDa

UniProt: [Q99986](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months
