

Datasheet for ABIN7551388
RIOK3 Protein (AA 1-519) (His tag)



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Overview

Quantity:	1 mg
Target:	RIOK3
Protein Characteristics:	AA 1-519
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RIOK3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat RIOK3 Protein expressed in mammalian cells.
Sequence:	<p>MDLVGVASPE PGTAAAWGPS KCPWAIPQNT ISCSLADVMS EQLAKELQLE EEA AVFPEVA VAEGPFITGE NIDTSSDLML AQMLQMEYDR EYDAQLRREE KKFNGDSKVS ISFENYRKVH PYEDSDSSED EVDWQDTRDD PYRPAKPVPT PKKGFIGKGG DITTKHDEVV CGRKNTARME NFAPEFQVGD GIGMDLKLSN HVFNALKQHA YSEERRSARL HEKKEHSTAE KAVDPKTRLL MYKMNNSGML ETITGCISTG KESVVFHAYG GSMEDEKEDS KVIPTCAIK VFKTTLNEFK NRDKYIKDDF RFKDRFSKLN PRKIIRMWAE KEMHNLARMQ RAGIPCPTVV LLKKHILVMS FIGHDQVPAP KLKEVKLNSE EMKEAYYQTL HLMRQLYHEC TLVHADLSEY NMLWHAGKVW LIDVSQSVEP THPHGLEFLF RDCRNVSQFF QKGGVKEALS EREL FNAVSG LNITADNEAD FLAEIEALEK MNEDHVQKNG RKAASFLKDD GDPPLLYDE 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</p>

contact us.

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, Western Blot

Grade:

custom-made

Target Details

Target:

RIOK3

Alternative Name:

RIOK3 ([RIOK3 Products](#))

Background:

Serine/threonine-protein kinase RIO3 (EC 2.7.11.1) (RIO kinase 3) (sudD homolog),FUNCTION: Involved in regulation of type I interferon (IFN)-dependent immune response which plays a critical role in the innate immune response against DNA and RNA viruses. May act as an adapter protein essential for the recruitment of TBK1 to IRF3 (PubMed:24807708). Phosphorylates IFIH1 on 'Ser-828' interfering with IFIH1 filament assembly on long dsRNA and resulting in attenuated IFIH1-signaling (PubMed:25865883). Can inhibit CASP10 isoform 7-mediated activation of the NF-kappaB signaling pathway (PubMed:19557502). May play a role in the biogenesis of the 40S ribosomal subunit. Involved in the processing of 21S pre-rRNA to the mature 18S rRNA (PubMed:22418843). {ECO:0000269|PubMed:19557502, ECO:0000269|PubMed:22418843, ECO:0000269|PubMed:24807708, ECO:0000269|PubMed:25865883}.

Molecular Weight:

59.1 kDa

Target Details

UniProt: [O14730](#)

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. 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