

Datasheet for ABIN7551370
RIOK1 Protein (AA 1-568) (His tag)



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Overview

Quantity:	1 mg
Target:	RIOK1
Protein Characteristics:	AA 1-568
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RIOK1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat RIOK1 Protein expressed in mammalian cells.
Sequence:	<p>MDYRRLLMSR VVPGQFDDAD SSDSENRLDK TVKEKDDILF EDLQDNVNEN GEGEIEDEEE</p> <p>EGYDDDDDDW DWDEGVGKLA KGYVWNGGSN PQANRQTSDS SSAKMSTPAD KVLRFKFNKI</p> <p>NLDKLNVTDS VINKVTEKSR QKEADMYRIK DKADRATVEQ VLDPRTRMIL FKMLTRGIIT</p> <p>EINGCISTGK EANVYHASTA NGESRAIKIY KTSILVFKDR DKYVSGEFRF RHGYCKGNPR</p> <p>KMVKTWAEKE MRNLIRLNTA EIPCPEPIML RSHVLVMSFI GKDDMPAPLL KNVQLSESKA</p> <p>RELYLQVIQY MRRMYQDARL VHADLSEFNM LYHGGGVYII DVSQSVEHDH PHALEFLRKD</p> <p>CANVNDFFMR HSVAVMTVRE LFEFVTDPST THENMDAYLS KAMEIASQRT KEERSSQDHFV</p> <p>DEEVFKRAYI PRTLNEVKNY ERDMDIIMKL KEEDMAMNAQ QDNILYQTVT GLKKDLSGVQ</p> <p>KVPALLENQV EERTCSDSED IGSSECSDTD SEEQGDHARP KKHTTDPDID KKERKKMVKE</p> <p>AQREKRKNKI PKHVKKRKEK TAKTKKKGK Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the</p>

protein could make another tag necessary. In case you have a special request, please 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:

RIOK1

Alternative Name:

RIOK1 ([RIOK1 Products](#))

Background:

Serine/threonine-protein kinase RIO1 (EC 2.7.11.1) (EC 3.6.3.-) (RIO kinase 1),FUNCTION: Involved in the final steps of cytoplasmic maturation of the 40S ribosomal subunit. Involved in processing of 18S-E pre-rRNA to the mature 18S rRNA. Required for the recycling of NOB1 and PNO1 from the late 40S precursor (PubMed:22072790). The association with the very late 40S subunit intermediate may involve a translation-like checkpoint point cycle preceeding the binding to the 60S ribosomal subunit (By similarity). Despite the protein kinase domain is proposed to act predominantly as an ATPase (By similarity). The catalytic activity regulates its dynamic association with the 40S subunit (By similarity). In addition to its role in ribosomal biogenesis acts as an adapter protein by recruiting NCL/nucleolin the to PRMT5 complex for its symmetrical methylation (PubMed:21081503). {ECO:0000250|UniProtKB:G0S3J5, ECO:0000250|UniProtKB:Q12196, ECO:0000269|PubMed:21081503,

Target Details

	ECO:0000269 PubMed:22072790}.
Molecular Weight:	65.6 kDa
UniProt:	Q9BRS2

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