

Datasheet for ABIN7555066  
**PRR5 Protein (AA 1-388) (His tag)**



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## Overview

Quantity:	1 mg
Target:	PRR5
Protein Characteristics:	AA 1-388
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRR5 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant PRR5 Protein expressed in mammalian cells.
Sequence:	MRTLRLKFM SSPSLSDLGK REPAAAADER GTQRRACAN ATWNSIHNGV IAVFQRKGLP DQELFSLNEG VRQLKTELG SFFTEYLQNN LLTKGMVILR DKIRFYEGQK LLDSLAETWD FFFSDVLPML QAIFYPVQGK EPSVRQLALL HFRNAITLSV KLEDALARAH ARVPPAIVQM LLVLQGVHES RGVTEDYLRL ETLVQKVVSF YLGTYGLHSS EGPFTHSCIL EKRLRRRSRS GDVLAKNPVV RSKSYNTPLL NPVQEHEAEG AAAGGTSIRR HSVSEMTSCP EPQGFSDPPG QGPTGTFRSS PAPHSGPCPS RLYPTTQPPE QGLDPTRSSL PRSSPENLVD QILESVDSDS EGIFIDFGRG RSGGMSDLEG SGGRSQSVV <b>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.</b>
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

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### 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.

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### Purity:

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

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### Grade:

custom-made

## Target Details

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### Target:

PRR5

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### Alternative Name:

PRR5 ([PRR5 Products](#))

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### Background:

Proline-rich protein 5 (Protein observed with Rictor-1) (Protor-1),FUNCTION: Subunit of mTORC2, which regulates cell growth and survival in response to hormonal signals. mTORC2 is activated by growth factors, but, in contrast to mTORC1, seems to be nutrient-insensitive. mTORC2 seems to function upstream of Rho GTPases to regulate the actin cytoskeleton, probably by activating one or more Rho-type guanine nucleotide exchange factors. mTORC2 promotes the serum-induced formation of stress-fibers or F-actin. mTORC2 plays a critical role in AKT1 'Ser-473' phosphorylation, which may facilitate the phosphorylation of the activation loop of AKT1 on 'Thr-308' by PDK1 which is a prerequisite for full activation. mTORC2 regulates the phosphorylation of SGK1 at 'Ser-422'. mTORC2 also modulates the phosphorylation of PRKCA on 'Ser-657'. PRR5 plays an important role in regulation of PDGFRB expression and in modulation of platelet-derived growth factor signaling. May act as a tumor suppressor in breast cancer. {ECO:0000269|PubMed:15718101, ECO:0000269|PubMed:17599906}.

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### Molecular Weight:

42.8 kDa

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## Target Details

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UniProt: [P85299](#)

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Pathways: [PI3K-Akt Signaling](#)

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## Application Details

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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.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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