

**Datasheet for 009-001-U16S****TP53RK protein-GST fusion****Overview**

|                      |                                                              |
|----------------------|--------------------------------------------------------------|
| <b>Description:</b>  | TP53RK recombinant protein-GST fusion protein - 009-001-U16S |
| <b>Item No.:</b>     | 009-001-U16S                                                 |
| <b>Size:</b>         | 20 µg                                                        |
| <b>Origin:</b>       | Human                                                        |
| <b>Expressed in:</b> | Sf9 cells                                                    |

**Product Details**

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Background:</b>        | TP53RK or TP53 regulating kinase and also called PRPK (p53-related protein kinase) is the human homologue of yeast Bud32. TP53RK belongs to a small subfamily of atypical protein kinases. TP53RK is expressed in interleukin-2-activated cytotoxic T-cells, epithelial tumor cell lines, and the testes and lower expression of TP53RK is found in heart, kidney, and spleen (1). PRPK interacts with CGI-121 and co-precipitation of p53 with PRPK is inhibited by adding recombinant CGI-121 in vitro. CGI-121 may act as an inhibitor of the PRPK-p53 interaction (2). TP53RK is activated by another kinase, Akt/PKB, which phosphorylates TP53RK at Ser250. TP53RK Protein is ideal for investigators involved in Signaling Proteins, Ubiquitin Proteins, Apoptosis/Autophagy, Cancer, Cardiovascular Disease, Cell Cycle, Cellular Stress, Inflammation, JNK/SAPK Pathway, Metabolic Disorder, Neurobiology, and p38 Pathway research. |
| <b>Synonyms:</b>          | BUD32, C20orf64, dJ101A2, Nori-2, Nori-2p, TP53-regulating kinase, Atypical serine/threonine protein kinase TP53RK, EKC/KEOPS complex subunit TP53RK, Nori-2, p53-related protein kinase, TP53RK, C20orf64, PRPK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species of Origin:</b> | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Expressed in:</b>      | Sf9 cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Type:</b>              | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**Target Details**

|                            |                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>          | TP53RK                                                                                                                                                                                                    |
| <b>Purity/Specificity:</b> | Recombinant full-length human TP53RK was expressed by baculovirus in Sf9 insect cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >80% by densitometry. |

**Relevant Links:** • [NCBI - NM\\_033550](#)

## Application Details

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| <b>Application Note:</b> | TP53RK Protein is stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. TP53RK Protein is suitable for use in Western Blot. Expect a band approximately ~55kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user. |
| <b>Assay Dilutions:</b>  | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                                   |
| <b>WB:</b>               | User Optimized                                                                                                                                                                                                                                                                                                                    |

## Formulation

|                        |                           |
|------------------------|---------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered) |
| <b>Concentration:</b>  | 0.1 µg/µL                 |
| <b>Buffer:</b>         | See application note.     |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Dry Ice                                                                                                                                                                                                                                 |
| <b>Storage Condition:</b>  | Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                   |

## Disclaimer

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