

Recombinant Human TP53RK, GST-tagged

Cat. No. TP53RK-197H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human TP53RK was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	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. 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. TP53RK is activated by another kinase, Akt/PKB, which phosphorylates TP53RK at Ser250.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~55 kDa
Purity	>80% by densitometry
Applications	Western Blot

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Storage	Store product at –70 centigrade. 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.
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Concentration	0.1 µg/µl
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GENE INFORMATION

Gene Name	TP53RK TP53 regulating kinase [Homo sapiens]
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Official Symbol	TP53RK
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Synonyms	TP53RK; TP53 regulating kinase; C20orf64, chromosome 20 open reading frame 64; TP53-regulating kinase; BUD32; dJ101A2.2; Nori 2p; prpk; p53-related protein kinase; PRPK; Nori-2; Nori-2p; dJ101A2; C20orf64;
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Gene ID	112858
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mRNA Refseq	NM_033550
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Protein Refseq	NP_291028
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MIM	608679
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UniProt ID	Q96S44
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Chromosome Location	20q13.2
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Function	ATP binding; nucleotide binding; p53 binding; protein binding; protein serine/threonine kinase activity; protein tyrosine kinase activity;
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