

## Recombinant Mouse Rfk Protein, Myc/DDK-tagged

Cat. No. Rfk-5478M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length riboflavin kinase (Rfk), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	Catalyzes the phosphorylation of riboflavin (vitamin B2) to form flavin-mononucleotide (FMN), hence rate-limiting enzyme in the synthesis of FAD. Essential for TNF-induced reactive oxygen species (ROS) production. Through its interaction with both TNFRSF1A and CYBA, physically and functionally couples TNFRSF1A to NADPH oxidase. TNF-activation of RFK may enhance the incorporation of FAD in NADPH oxidase, a critical step for the assembly and activation of NADPH oxidase.
<b>Molecular Mass</b>	17.9 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method

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**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

**Gene Name** Rfk riboflavin kinase [ *Mus musculus* (house mouse) ]

**Official Symbol** Rfk

**Synonyms** RFK; riboflavin kinase; flavokinase; ATP:riboflavin 5-phosphotransferase; KOI-4; AF031381; 0610038L10Rik

**Gene ID** 54391

**mRNA Refseq** NM\_019437

**Protein Refseq** NP\_062310

**UniProt ID** Q8CFV9

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