

Recombinant Mouse Rfk Protein, Myc/DDK-tagged

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

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length riboflavin kinase (Rfk), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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.
Molecular Mass	17.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>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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