

Recombinant Mouse Rd3 Protein, Myc/DDK-tagged

Cat. No. Rd3-5442M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length retinal degeneration 3 (Rd3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Plays a critical role in the regulation of enzymes involved in nucleotide cycle in photoreceptors. Inhibits the basal catalytic activity and the GCAP-stimulated activity of GUCY2E and GUCY2F, two retinal guanylyl cyclases involved in the production of cGMP in photoreceptors. Involved in the transport of GUCY2E and GUCY2F to their target sites in the photoreceptor outer segment. Up-regulates the activity of GUK1, a kinase that plays also an essential role for recycling GMP and indirectly, cGMP. Plays an important role for the survival of rods and cones in the retina.
Molecular Mass	22.7 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 Rd3 retinal degeneration 3 [Mus musculus (house mouse)]

Official Symbol Rd3

Synonyms RD3; retinal degeneration 3; protein RD3; rd3; rd-3; 3322402L07Rik; MGC117971; MGC151312; MGC151314

Gene ID 74023

mRNA Refseq NM_023727

Protein Refseq NP_076216

UniProt ID Q8BRE0

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