

Recombinant Mouse Rsad2 Protein, Myc/DDK-tagged

Cat. No. Rsad2-5632M Lot. No. (See product label)

SPECIFICATION

Product Overview Purified recombinant protein of mouse full-length radical S-adenosyl methionine domain containing 2 (Rsad2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species Mouse

Source HEK293

Description Interferon-inducible iron-sulfur (4FE-4S) cluster-binding antiviral protein which plays a major role in the cell antiviral state induced by type I and type II interferon. Can inhibit a wide range of viruses, including west Nile virus (WNV), dengue virus, sindbis virus, influenza A virus, sendai virus and vesicular stomatitis virus (VSV). Displays antiviral activity against influenza A virus by inhibiting the budding of the virus from the plasma membrane by disturbing the lipid rafts. This is accomplished, at least in part, through binding and inhibition of the enzyme farnesyl diphosphate synthase (FPPS), which is essential for the biosynthesis of isoprenoid-derived lipids. Promotes TLR7 and TLR9-dependent production of IFN-beta production in plasmacytoid dendritic cells (pDCs) by facilitating Lys-63'-linked ubiquitination of IRAK1. Plays a role in CD4+ T-cells activation and differentiation. Facilitates T-cell receptor (TCR)-mediated GATA3 activation and optimal T-helper 2 (Th2) cytokine production by modulating NFKB1 and JUNB activities. Can inhibit secretion of soluble proteins.

Molecular Mass 41.6 kDa

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

GENE INFORMATION

Gene Name	Rsad2 radical S-adenosyl methionine domain containing 2 [Mus musculus (house mouse)]
Official Symbol	Rsad2
Synonyms	RSAD2; radical S-adenosyl methionine domain containing 2; radical S-adenosyl methionine domain-containing protein 2; viperin; VHSV-induced-like protein; viral hemorrhagic septicemia virus (VHSV)-induced gene 1; virus inhibitory protein, endoplasmic reticulum-associated, interferon-inducible; Vig1; cig5; 2510004L01Rik
Gene ID	58185
mRNA Refseq	NM_021384
Protein Refseq	NP_067359
UniProt ID	Q8CBB9

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