

Recombinant Mouse Ifih1 Protein, Myc/DDK-tagged

Cat. No. Ifih1-3479M **Lot. No.** (See product label)

SPECIFICATION

Product Overview Purified recombinant protein of mouse full-length interferon induced with helicase C domain 1 (Ifih1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species Mouse

Source HEK293

Description Innate immune receptor which acts as a cytoplasmic sensor of viral nucleic acids and plays a major role in sensing viral infection and in the activation of a cascade of antiviral responses including the induction of type I interferons and proinflammatory cytokines. Its ligands include mRNA lacking 2'-O-methylation at their 5' cap and long-dsRNA (>1 kb in length). Upon ligand binding it associates with mitochondria antiviral signaling protein (MAVS/IPS1) which activates the IKK-related kinases: TBK1 and IKKε which phosphorylate interferon regulatory factors: IRF3 and IRF7 which in turn activate transcription of antiviral immunological genes, including interferons (IFNs); IFN-α and IFN-β. Responsible for detecting the Picornaviridae family members such as encephalomyocarditis virus (EMCV), mengo encephalomyocarditis virus (ENMG), and theiler's murine encephalomyelitis virus (TMEV). Can also detect other viruses such as dengue virus (DENV), west Nile virus (WNV), and reovirus. Also involved in antiviral signaling in response to viruses containing a dsDNA genome, such as vaccinia virus. Plays an important role in amplifying innate immune signaling through recognition of RNA metabolites that are produced during virus infection by ribonuclease L (RNase L). May play an important role in enhancing natural killer cell function and may be involved in growth inhibition and apoptosis in several tumor cell

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	lines.
Molecular Mass	111.3 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
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Ifih1 interferon induced with helicase C domain 1 [Mus musculus (house mouse)]
Official Symbol	Ifih1
Synonyms	IFIH1; interferon induced with helicase C domain 1; interferon-induced helicase C domain-containing protein 1; helicase with 2 CARD domains; melanoma differentiation-associated protein 5; interferon induced with helicase C domain protein 1; Hlcd; MDA5; Helicard; 9130009C22Rik; MGC90959
Gene ID	71586
mRNA Refseq	NM_001164477
Protein Refseq	NP_001157949

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UniProt ID

Q8R5F7

SDS-PAGE



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