

Recombinant Human IFIH1

Cat. No. IFIH1-28633TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 928-1023 of Human MDA5 with a proprietary tag; Predicted MWt 36.19 including tag.
Species	Human
Source	Wheat Germ
ProteinLength	928-1023 a.a.
Description	DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box protein that is upregulated in response to treatment with beta-interferon (IFNB) and a protein kinase C-activating compound, mezerein (MEZ). Irreversible reprogramming of melanomas can be achieved by treatment with both these agents; treatment with either agent alone only achieves reversible differentiation.
Molecular Weight	36.190kDa inclusive of tags
Tissue specificity	Widely expressed, at a low level. Expression is detected at slightly highest levels in placenta, pancreas and spleen and at barely levels in detectable brain, testis and

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	lung.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	HVNMTPEFKELYIVRENKALQKKCADYQINGEIICKCGQAWGTMMVHKGLDLPCLKI RNFVVVFKNNSTKKQYKKWVELPITFPNLDYSECCLFSD
Sequence Similarities	Belongs to the helicase family.Contains 2 CARD domains.Contains 1 helicase ATP-binding domain.Contains 1 helicase C-terminal domain.

GENE INFORMATION

Gene Name	IFIH1 interferon induced with helicase C domain 1 [Homo sapiens]
Official Symbol	IFIH1
Synonyms	IFIH1; interferon induced with helicase C domain 1; interferon-induced helicase C domain-containing protein 1; helicard; Hlcd; IDDM19; MDA 5; MDA5;
Gene ID	64135
mRNA Refseq	NM_022168
Protein Refseq	NP_071451

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MIM	606951
Uniprot ID	Q9BYX4
Chromosome Location	2q24.2
Pathway	Herpes simplex infection, organism-specific biosystem; Herpes simplex infection, conserved biosystem; Immune System, organism-specific biosystem; Influenza A, organism-specific biosystem; Influenza A, conserved biosystem;
Function	ATP binding; DNA binding; double-stranded RNA binding; helicase activity; hydrolase activity, acting on acid anhydrides;

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