

Recombinant Human IFIH1 protein, His-tagged

Cat. No. IFIH1-1861H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IFIH1 aa. (Arg605~Ala815) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Arg605~Ala815
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 and a protein kinase C-activating compound, mezerein. Irreversible reprogramming of melanomas can be achieved by treatment with both these agents; treatment with either agent alone only achieves reversible differentiation. Genetic variation in this gene is associated with diabetes mellitus insulin-dependent type 19.
Form	Freeze-dried powder
Molecular Mass	28kDa as determined by SDS-PAGE reducing conditions.

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Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>98%
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Isoelectric Point	4.8

GENE INFORMATION

Gene Name	IFIH1 interferon induced with helicase C domain 1 [Homo sapiens (human)]
Official Symbol	IFIH1
Synonyms	IFIH1; interferon induced with helicase C domain 1; AGS7; Hlcd; MDA5; MDA-5;

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RLR-2; IDDM19; SGMRT1; interferon-induced helicase C domain-containing protein 1; CADM-140 autoantigen; DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide; RIG-I-like receptor 2; RNA helicase-DEAD box protein 116; clinically amyopathic dermatomyositis autoantigen 140 kDa; helicard; helicase with 2 CARD domains; melanoma differentiation-associated gene 5; melanoma differentiation-associated protein 5; murabutide down-regulated protein

Gene ID [64135](#)

mRNA Refseq [NM_022168.3](#)

Protein Refseq [NP_071451.2](#)

UniProt ID [Q9BYX4](#)

SDS-PAGE

