

Recombinant Human IFIH1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. IFIH1-2162H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	IFIH1 MS Standard C13 and N15-labeled recombinant protein (NP_071451) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	116.5 kDa
AA Sequence	MSNGYSTDENFRYLISCFRARKMYIQVEPVLDTFLPAEVKEQIQRTVATSGNMQ AVEALLSTLEKGVWHLGWTRFVEALRRRTGSPLAARYMNPETDLPSPSFENAHDE

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YLQLLNLLQPTLVDKLLVRDVLDKCMEEELLTIEDRNRIAAAENNGNESGVRELLKRI
 VQKENWFSAFLNVLRQTGNNELVQELTGSDCSESNAEIEENLSQVDGPQVEEQLLST
 TVQPNLEKEVWGMENNSSESSFADSSVVSESDTSLAEGSVSCLDESLGHNSNMGS
 DSGTMGSDSDEENVAARASPEPELQLRPYQMEVAQPALEGKNIICLPTGSGKTRVA
 VYIAKDHLDKKKKASEPGKVIVLVNKVLLVEQLFRKEFQPFLKKWYRVIGLSGDTQLKI
 SFPEVVKSCDIIISTAQILENSLLNLENGEDAGVQLSDFSLIIDECHHTNKEAVYNNIM
 RHYLMQKLKNNRLKKNKPVILPQILGLTASPGVGGATKQAKAEHILKLCANLDAF
 TIKTVKENLDQLKNQIQEPCKKFAIADATREDPFKEKLEIMTRIQTTCQMSPMSDFG
 TQPYEQWAIQMEKKAAKEGNRKERVCAEHLRKYNEALQINDTIRMIDAYTHLETFFYN
 EEKDKKFAVIEDDSDEGGDDEYCDGDEDEDDLKKPLKLDDETDRFLMTLFFENNKM
 KRLAENPEYENEKLTCLRNTIMEQYTRTEESARGIIFTKTRQSAYALSQWITENEKFA
 EVGVKAHHLIGAGHSSEFKPMTQNEQKEVISKFRTGKINLLIATTVAEEGLDIKECNIVI
 RYGLVTNEIAMVQARGRARADESTYVLVAHSGSGVIERETVNDFREKMMYKAHCV
 QNMKPEEYAHKILELQMQSIMEKKMKTKRNIAKHYKNNLSLITFLCKNCSVLACSGE
 DIHVIEKMHHVNMTPEFKELYIVRENKTLQKKCADYQINGEICKCGQAWGTMMVHK
 GLDLPCLKIRNFVVVFKNNSTKKQYKKWVELPITFPNLDYSECCLFSDDEDTRTRPLE
 QKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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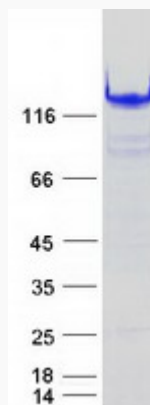
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Gene Name	IFIH1 interferon induced with helicase C domain 1 [Homo sapiens (human)]
Official Symbol	IFIH1
Synonyms	IFIH1; interferon induced with helicase C domain 1; interferon-induced helicase C domain-containing protein 1; helicard; Hlcd; IDDM19; MDA 5; MDA5; CADM-140 autoantigen; helicase with 2 CARD domains; RNA helicase-DEAD box protein 116; murabutide down-regulated protein; DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide; melanoma differentiation associated protein-5; melanoma differentiation-associated protein 5; interferon-induced with helicase C domain protein 1; clinically amyopathic dermatomyositis autoantigen 140 kDa; MDA-5; MGC133047;
Gene ID	64135
mRNA Refseq	NM_022168
Protein Refseq	NP_071451
MIM	606951
UniProt ID	Q9BYX4

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SDS-PAGE

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