

Recombinant Human OAS1, His-tagged

Cat. No. OAS1-27767TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human OAS1, isoform p41 with N terminal His tag; 384 amino acids with a predicted MWt 43.9kDa including tag.
Species	Human
Source	E.coli
ProteinLength	364 amino acids
Description	This gene encodes a member of the 2-5A synthetase family, essential proteins involved in the innate immune response to viral infection. The encoded protein is induced by interferons and uses adenosine triphosphate in 2-specific nucleotidyl transfer reactions to synthesize 2,5-oligoadenylates (2-5As). These molecules activate latent RNase L, which results in viral RNA degradation and the inhibition of viral replication. The three known members of this gene family are located in a cluster on chromosome 12. Mutations in this gene have been associated with host susceptibility to viral infection. Alternatively spliced transcript variants encoding different isoforms have been described.
Conjugation	HIS
Molecular Weight	43.900kDa inclusive of tags
Form	Liquid

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Purity	>95% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 10% Glycerol, 0.02% DTT
Storage	Please see Notes section
Sequences of amino acids	MGSSHHHHHSSGLVPRGSHMMDLRNTPAKSLDKFIEDYL LPDTCFRMQINHAIIDII CGFLKERCFRGSSYPVCVSKVVK GGSSGKGTTLRGRSDADLVVFLSPLTTFQDQL NRRGEFIQ EIRRQLEACQRERAFSVKFEVQAPRWGNPRALSFLVSSLQ LGEGVEF DVLPAFDALGQLTGSYKPNPQIYVKLIEECTDL QKEGEFSTCFTELQRDFLKQRPTK LKSLIRLVKHWYQNCK KKLGLPQPQYALELLTVYAWERGSMKTHFNTAQQGFRTVLE LVINYQQLCIYWTKYYDFKNPIIEKYLRRQLTKPRPVILD PADPTGNLGGGDPKGWR QLAQEAELWLNYPCKNWDGSPV SSWILLVRPPASSLPFIPAPLHEA
Sequence Similarities	Belongs to the 2-5A synthase family.

GENE INFORMATION

Gene Name	OAS1 2-5-oligoadenylate synthetase 1, 40/46kDa [Homo sapiens]
Official Symbol	OAS1
Synonyms	OAS1; 2-5-oligoadenylate synthetase 1, 40/46kDa; 2,5 oligoadenylate synthetase 1 (40 46 kD) , OIAS; 2-5-oligoadenylate synthase 1; IFI 4; OIASI;
Gene ID	4938
mRNA Refseq	NM_001032409
Protein Refseq	NP_001027581

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Uniprot ID	P00973
Chromosome Location	12q24.2
Pathway	Cytokine Signaling in Immune system, organism-specific biosystem; Hepatitis C, organism-specific biosystem; Hepatitis C, conserved biosystem; Herpes simplex infection, organism-specific biosystem; Herpes simplex infection, conserved biosystem;
Function	2-5-oligoadenylate synthetase activity; ATP binding; double-stranded RNA binding; nucleotide binding; nucleotidyltransferase activity;

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