

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	<p>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.</p>
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	<p>MGSSHHHHHSSGLVPRGSHMMDLRNTPAKSLDKFIEDYL LPDTCFRMQINHAIIDII CGFLKERCFRGSSYPVCVSKVVK GGSSGKGTTLRGRSDADLVVFLSPLTTTFQDQL NRRGEFIQ EIRRQLEACQRERAFSVKFEVQAPRWGNPRALSFVLSSLQ LGEGVEF DVLPAFDALGQLTGSYKPNPQIYVKLIEECTDL QKEGEFSTCFTELQRDFLKQRPTK LKSLIRLVKHWYQNCK KKLGLPQQYALELLTVYAWERGSMTKHFNTAQQGFRTVLE LVINYQQLCIYWTKYYDFKNPIIEKYLRRLTKPRPVILD PADPTGNLGGGDPKGWR QLAQEAEAWLNYPCKFNWDGSPV SSWILLVRPPASSLPFIPAPLHEA</p>
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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