Recombinant Human 2,5-oligoadenylate Synthetase 1, 40/46kDa

Cat. No. OAS1-378H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human OAS1 protein was expressed in*E.coli*and purified by using conventional chromatography techniques. MW = 43.9 kDa (384aa).
Species	Human
Source	E.coli
Description	OAS1 is an enzyme included in the 2',5'-oligoadenylate synthase family. This enzyme is induced by interferons and uses adenosine triphosphate in 2'-specific nucleotidyl tr ansfer 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 replic ation. OAS1 may play a role in mediating resistance to virus infection, control of cell g rowth, differentiation, and apoptosis.
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MMDLRNTPAK SLDKFIEDYL LPDTCFRMQI NHAIDIICGF LKERCFRGSS YPVCVSKVVK GGSSGKGTTL RGRSDADLVV FLSPLTTFQD QLNRRGEFIQ EIRRQLEACQ RERAFSVKFE VQAPRWGNPR ALSFVLSSLQ LGEGVEFDVL PAFDALGQLT GSYKPNPQIY VKLIEECTDL QKEGEFSTCF TELQRDFLKQ RPTKLKSLIR LVKHWYQNCK KKLGKLPPQY ALELLTVYAW ERGSMKTHFN TAQGFRTVLE LVINYQQLCI YWTKYYDFKN PIIEKYLRRQ LTKPRPVILD PADPTGNLGG GDPKGWRQLA QEAEAWLNYP CFKNWDGSPV SSWILLVRPP ASSLPFIPAP LHEA

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Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol and 1mM DTT.
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Endotoxin Level	< 1.0 EU per 1 μg of protein (determined by LAL method).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	OAS1 2",5"-oligoadenylate synthetase 1, 40/46kDa [Homo sapiens]
Synonyms	OAS1; 2",5"-oligoadenylate synthetase 1, 40/46kDa; OIAS; IFI-4; OIASI; 2",5"-oligoadenylate synthetase 1; 2-5A synthetase 1; 2",5"-oligo A synthetase 1; 2"-5"-oligoisoadenylate synthetase 1; 2"-5" oligoadenylate synthetase 1 p48 isoform; 2"-5" oligoadenylate synthetase 1 p52 isoform; EC 2.7.7.-; p46/p42 OAS; E18/E16; OIAS
Gene ID	4938
mRNA Refseq	NM_001032409
Protein Refseq	NP_001027581
MIM	164350
UniProt ID	P00973
Chromosome	12q24.2

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Location	
Function	ATP binding; RNA binding; nucleotide binding; nucleotidyltransferase activity; transferase activity

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