

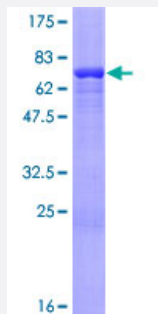
Full-Length

OAS1 (Human) Recombinant Protein (P01)

Catalog # H00004938-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human OAS1 full-length ORF (NP_058132.2, 1 a.a. - 400 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MMDLRNTPAKSLDKFIEDYLLPDTCFRMQINHAIIDICGFLKERCFRGSSYPVCVSKVVKGGSSGK
GTLRGRSDADLVVFLSPLTTFQDQLNRRGEFIQEIIRQLEACQRERAFSVKFEVQAPRWGNPRA
LSFVLSSLQLGEGVEFDVLPAFDALGQLTGGYKPNPQIVKLIIECTDLQKEGEFSTCFTELQRDF
LKQRPTKLKSLIRLVKHWYQNCKKKLGKLPPQYALELLTVYAWERGSMKTHFNQAQGFRTVLELVI
NYQQLCIWTKYYDFKNPIIEKYLRRLTKPRPVILDPADPTGNLGGGDPKGWRQLAQEAELWLN
PCFKNWDGSPVSSWILLAESNSADDETDDPRRYQKYGYGTHEYPHFSHRPSTLQAASTPQAE
DWTCTIL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

72.4

Interspecies Antigen Sequence

Mouse (71)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — OAS1

Entrez GeneID	4938
GeneBank Accession#	NM_016816.2
Protein Accession#	NP_058132.2
Gene Name	OAS1
Gene Alias	IFI-4, OIAS, OIASI
Gene Description	2',5'-oligoadenylate synthetase 1, 40/46kDa
Omim ID	164350 222100
Gene Ontology	Hyperlink

Gene Summary	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 a deinosine 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. [provided by RefSeq]
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Other Designations

(2'-5') oligoadenylate synthetase 1|2',5'-oligo A synthetase 1|2',5'-oligoadenylate synthetase 1|2',5'-oligoadenylate synthetase 1 (40-46 kD)|2'-5' oligoadenylate synthetase 1 p48 isoform|2'-5' oligoadenylate synthetase 1 p52 isoform|2'-5'-oligoisoadenyla

Publication Reference

- [The association of elevated 2',5'-oligoadenylate-dependent RNase L with lung cancer correlated with deficient enzymatic activity and decreased capacity of RNase L dimerization.](#)

Yin H, Zhou A, Dai Y.

Lung Cancer 2012 Oct; 78(1):30.

Application: Func, 2-5A synthesis

Disease

- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [Liver Cirrhosis](#)
- [Multiple Sclerosis](#)
- [Ovarian Neoplasms](#)
- [Severe Acute Respiratory Syndrome](#)
- [West Nile Fever](#)