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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

OAS1 (Human) Recombinant Protein (P01)

Catalog Number: H00004938-P01

Regulation Status: For research use only (RUO)

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:

MMDLRNTPAKSLDKFIEDYLLPDTCFRMQINHAIDIICG
FLKERCFRGSSYPVCVSKVVKGGSSGKGTTLRGRSD
ADLVVFLSPLTTFQDQLNRRGEFIQEIIRRLQLEACQRER
AFSVKFEVQAPRWGNPRALSFLVSSLQLGEGVEFDVL
PAFDALGQLTGGYKPNPQIYVKLIEECTDLQKEGEFST
CFTELQRDFLKQRPTKLKSLIRLVKHWYQNCKKKLGKL
PPQYALELLTVYAWERGSMTKTHFNQAQGFRTVLELVI
NYQQLCIYWTKYYDFKNPIIEKYLRRQLTKPRVILDPA
DPTGNLGGDPKGWRQLAQEAELNYPFCFNWDG
SPVSSWILLAESNSADDETDPRRYQKYGYIGTHEYYP
HFSHRPSTLQAASTPQAEEDWTCTIL

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 72.4

Applications: AP, Array, ELISA, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Preparation Method: [in vitro wheat germ expression system](#)

Purification: Glutathione Sepharose 4 Fast Flow

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.

Entrez GeneID: 4938

Gene Symbol: OAS1

Gene Alias: IFI-4, OIAS, OIASI

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 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. [provided by RefSeq]

References:

1. 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):30-8. doi: 10.1016/j.lungcan.2012.07.010. Epub 2012 Aug 24.