

Recombinant Human OAS2 Protein (Val11-His346), His tagged

Cat. No. OAS2-4755H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human OAS2 (Val11-His346) fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Val11-His346
Description	Interferon-induced, dsRNA-activated antiviral enzyme which plays a critical role in cellular innate antiviral response. Activated by detection of double stranded RNA (dsRNA) : polymerizes higher oligomers of 2'-5'-oligoadenylates (2-5A) from ATP which then bind to the inactive monomeric form of ribonuclease L (RNASEL) leading to its dimerization and subsequent activation. Activation of RNASEL leads to degradation of cellular as well as viral RNA, resulting in the inhibition of protein synthesis, thus terminating viral replication. Can mediate the antiviral effect via the classical RNASEL-dependent pathway or an alternative antiviral pathway independent of RNASEL. In addition, it may also play a role in other cellular processes such as apoptosis, cell growth, differentiation and gene regulation. May act as a negative regulator of lactation, stopping lactation in virally infected mammary gland lobules, thereby preventing transmission of viruses to neonates. Non-infected lobules would not be affected, allowing efficient pup feeding during infection.
Form	Lyophilized powder/frozen liquid

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	38.71 kDa
Purity	>90% as determined by SDS-PAGE.
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	OAS2 2-5-oligoadenylate synthetase 2, 69/71kDa [Homo sapiens (human)]
Official Symbol	OAS2
Synonyms	OAS2; 2-5-oligoadenylate synthetase 2, 69/71kDa; 2 5 oligoadenylate synthetase 2 (69 71 kD); 2-5-oligoadenylate synthase 2; 2-5A synthase 2; p69 OAS / p71 OAS; (2-5) oligo (A) synthetase 2; MGC78578;
Gene ID	4939
mRNA Refseq	NM_001032731
Protein Refseq	NP_001027903

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



MIM	603350
------------	--------

UniProt ID	P29728
-------------------	--------

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA