

Human 2, 5-OAS (2, 5-oligoadenylate synthetase) ELISA Kit | 2, 5-OAS elisa kit

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CATALOG #
AAA27520

REACTIVITY
Human

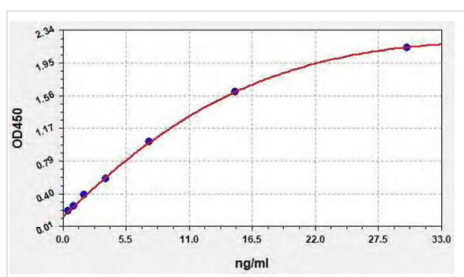
PRODUCT SYNONYMS

2; 5-OAS (2; 5-oligoadenylate synthetase); Human 2; 5-oligoadenylate synthetase) ELISA Kit; 5-OAS elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize 2, 5-OAS, no obvious cross reaction with other analogues
Sequence Length	1087
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	0.469-30ng/ml
Sensitivity	0.281ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level 2, 5- OAS were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level 2, 5- OAS were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for 2, 5-OAS elisa kit	Background: 2'-5'-oligoadenylate synthetase 1 (OAS1) is an antiviral protein induced by type 1 interferon that plays a key role in the cellular innate immune response. The OAS1 enzyme produces the second messenger 2'-5'-linked oligoadenylate in response to cytosolic dsRNA. These 2'-5'-linked oligoadenylates bind to the ribonuclease RNase L, which then degrades viral and cellular RNA. Polymorphisms in the corresponding OAS1 gene have been examined for possible association with increased susceptibility to type 1 diabetes mellitus, multiple sclerosis, and infection by viral pathogens. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti 2, 5-OAS antibody was pre-coated onto the 96-well plate. The biotin conjugated anti 2, 5-OAS antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with 2, 5-OAS conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of 2, 5-OAS in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	45007007
NCBI GeneID	4940
NCBI Accession #	NP_006178.2
NCBI GenBank Nucleotide #	NM_006187.3
UniProt Accession #	Q9Y6K5; Q2HJ14; Q9H3P5
Molecular Weight	121,170 Da
NCBI Official Full Name	2'-5'-oligoadenylate synthase 3
NCBI Official Synonym Full Names	2'-5'-oligoadenylate synthetase 3
NCBI Official Symbol	OAS3
NCBI Official Synonym Symbols	p100; p100OAS
NCBI Protein Information	2'-5'-oligoadenylate synthase 3
UniProt Protein Name	2'-5'-oligoadenylate synthase 3
UniProt Gene Name	OAS3
UniProt Synonym Gene Names	(2-5')oligo(A) synthase 3; 2-5A synthase 3; p100OAS

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/2-5-oas-2-5-oligoadenylate-synthetase/27520>