

Human Sodium Iodide Symporter (NIS) ELISA Kit | NIS elisa kit

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CATALOG #
AAA65574

REACTIVITY
Human

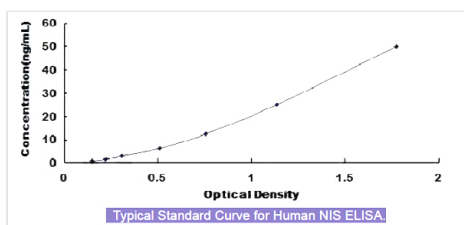
PRODUCT SYNONYMS

Sodium Iodide Symporter (NIS); Human Sodium Iodide Symporter (NIS) ELISA Kit; SLC5A5; Solute Carrier Family 5 Member 5; Na⁺/I⁻ cotransporter; NIS elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of NIS. No significant cross-reactivity or interference between NIS and analogues was observed.
Sequence Length	643
Assay Type	Quantitative Sandwich
Samples	Human serum, plasma, tissue homogenates, cell lysates or other biological fluids
Detection Range	0.781-50ng/mL
Sensitivity	< 0.24ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level NIS were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level NIS were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for NIS elisa kit	Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to NIS. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to NIS. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain NIS, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of NIS in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of NIS in human serum, plasma, tissue homogenates, cell lysates or other biological fluids.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4507035
NCBI GeneID	6528
NCBI Accession #	NP_000444.1
NCBI GenBank Nucleotide #	NM_000453.2
UniProt Accession #	Q92911; O43702; Q2M335; Q9NYB6
Molecular Weight	68,666 Da
NCBI Official Full Name	sodium/iodide cotransporter
NCBI Official Synonym Full Names	solute carrier family 5 member 5
NCBI Official Symbol	SLC5A5
NCBI Official Synonym Symbols	NIS; TDH1
NCBI Protein Information	sodium/iodide cotransporter
UniProt Protein Name	Sodium/iodide cotransporter
UniProt Gene Name	SLC5A5
UniProt Synonym Gene Names	NIS; Na(+)/I(-) cotransporter; Na(+)/I(-) symporter

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/sodium-iodide-symporter-nis/65574>