Sodium Iodide Symporter Recombinant Protein | NIS recombinant protein

Recombinant Sodium Iodide Symporter (NIS)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA20986	**E.coli**	**Homo sapiens (Human)**	**SDS-Page, Western Blot**

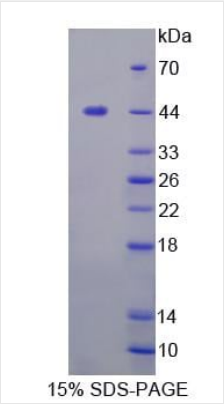
PRODUCT SYNONYMS

Sodium Iodide Symporter; Recombinant Sodium Iodide Symporter (NIS); NIS recombinant protein

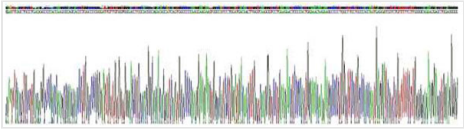
PRODUCT SPECIFICATIONS

Host	E.coli
Reactivity	Homo sapiens (Human)
Purity/Purification	> 90%
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose
Concentration	Original Concentration: 200ug/mL (varies by lot)
Applicable Applications for NIS recombinant protein	Positive Control, Immunogen, SDS-PAGE, WB (Western Blot)
Application Notes	(May be suitable for use in other assays to be determined by the end user.)
Source	Prokaryotic expression
Residues	Ser547~Leu643
Tags	N-terminal His and GST Tag
Subcellular Location	Membrane
Traits	Freeze-dried powder
Predicted isoelectric point	4.9
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1. Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	**Storage:** Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. **Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



SDS-PAGE



Gene Sequencing (Extract)

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                                                  SCLT
GPTKRSTLAP GLLWWDLARQ TASVAPKEEV AILDDNLVKG PEELPTGNKK
PPGFLPTNED RLFFLGQKEL EGAGSWTPCV GHDGGRDQQE TNL
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Sequence Information

NCBI AND UNIPROT INFORMATION

NCBI GI #	1628579
NCBI GeneID	6528
Molecular Weight	Predicted Molecular Mass: 40.5kDa Accurate Molecular Mass: 44kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	sodium iodide symporter
NCBI Official Synonym Full Names	solute carrier family 5 (sodium/iodide cotransporter), 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
UniProt Entry Name	SC5A5_HUMAN

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/slc5a5-recombinant-protein-e-coli-positive-control-immunogen-sds-page-wb-western-blot/20986