Recombinant Human SLC5A5 protein, His & GST-tagged

Cat. No. SLC5A5-1207H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SLC5A5 aa. (Ser547~Leu643 (Accession # Q92911) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ser547~Leu643
Description	This gene encodes a member of the sodium glucose cotransporter family. The encoded protein is responsible for the uptake of iodine in tissues such as the thyroid and lactating breast tissue. The iodine taken up by the thyroid is incorporated into the metabolic regulators triiodothyronine (T3) and tetraiodothyronine (T4). Mutations in this gene are associated with thyroid dyshormonogenesis 1.
Form	Freeze-dried powder
Molecular Mass	44kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	>90%
Characteristic	The isoelectric point is 4.9.

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Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	SLC5A5 solute carrier family 5 member 5 [Homo sapiens (human)]
Official Symbol	SLC5A5
Synonyms	SLC5A5; solute carrier family 5 member 5; NIS; TDH1; sodium/iodide cotransporter; Na(+)/I(-) cotransporter; Na(+)/I(-) symporter; solute carrier family 5 (sodium iodide symporter), member 5; solute carrier family 5 (sodium/iodide cotransporter), member 5
Gene ID	6528
mRNA Refseq	NM_000453.2

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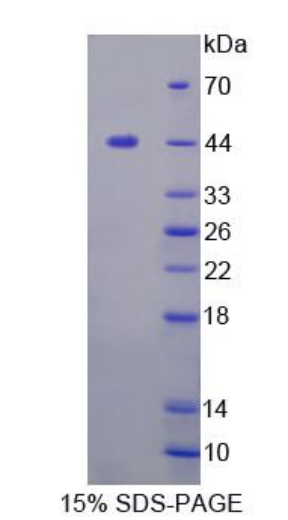
Protein Refseq	NP_000444.1
UniProt ID	Q92911
SDS-PAGE	

15% SDS-PAGE

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