

Recombinant Human SI protein, His & S-tagged

Cat. No. SI-7918H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SI aa. (Asn1717~Ser1827 (Accession # P14410)) fused with N-terminal His & S tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Asn1717~Ser1827
Description	This gene encodes a sucrase-isomaltase enzyme that is expressed in the intestinal brush border. The encoded protein is synthesized as a precursor protein that is cleaved by pancreatic proteases into two enzymatic subunits sucrase and isomaltase. These two subunits heterodimerize to form the sucrose-isomaltase complex. This complex is essential for the digestion of dietary carbohydrates including starch, sucrose and isomaltose. Mutations in this gene are the cause of congenital sucrase-isomaltase deficiency.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 18.3kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 5.2.
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% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	SI sucrase-isomaltase [Homo sapiens (human)]
Official Symbol	SI
Synonyms	SI; sucrase-isomaltase; sucrase-isomaltase, intestinal; alpha-glucosidase; oligosaccharide alpha-1,6-glucosidase
Gene ID	6476
mRNA Refseq	NM_001041.3

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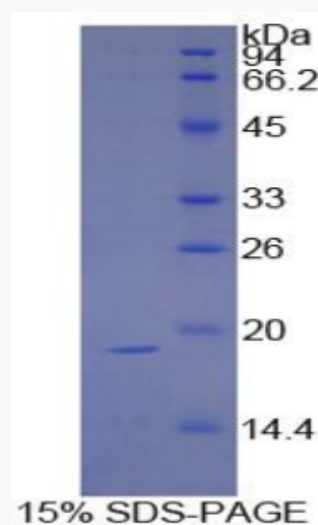
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Protein Refseq NP_001032.2

UniProt ID P14410

SDS-PAGE



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