Recombinant Human SI

Cat. No. SI-29814TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human SI with N terminal proprietary tag, predicted mwt: 36.52 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	99 amino acids
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.
Molecular Weight	36.520kDa inclusive of tags
Tissue specificity	Expressed in the poorly differentiated crypt cells of the small intestine as well as in the mature villous cells. Expressed at very low levels in the colon.
Form	Liquid
Purity	Proprietary Purification

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	DGESIDTYERDLYLSVQFNLNQTTLTSTILKRGYINKSETRLGSLHVWGKGTTPVNAV TLTYNGNKNSLPFNEDTTNMILRIDLTTHNVTLEEPIEINW
Sequence Similarities	Belongs to the glycosyl hydrolase 31 family.Contains 2 P-type (trefoil) domains.

GENE INFORMATION

Gene Name	SI sucrase-isomaltase (alpha-glucosidase) [Homo sapiens]
Official Symbol	SI
Synonyms	SI; sucrase-isomaltase (alpha-glucosidase); sucrase isomaltase; sucrase-isomaltase, intestinal; Oligosaccharide alpha 1; 6 glucosidase;
Gene ID	6476
mRNA Refseq	NM_001041
Protein Refseq	NP_001032
MIM	609845
Uniprot ID	P14410
Chromosome Location	3q25.2-q26.2

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Pathway	Carbohydrate digestion and absorption, organism-specific biosystem; Carbohydrate digestion and absorption, conserved biosystem; Digestion of dietary carbohydrate, organism-specific biosystem; Galactose metabolism, organism-specific biosystem; Galactose metabolism, conserved biosystem;
Function	alpha-glucosidase activity; carbohydrate binding; oligo-1,6-glucosidase activity; sucrose alpha-glucosidase activity;

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