

Recombinant Human SLC5A1, GST-tagged

Cat. No. SLC5A1-2775H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SLC5A1(1 a.a. - 664 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	This gene encodes a member of the sodium-dependent glucose transporter (SGLT) family. The encoded integral membrane protein is the primary mediator of dietary glucose and galactose uptake from the intestinal lumen. Mutations in this gene have been associated with glucose-galactose malabsorption. Multiple transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	99.99 kDa
AA Sequence	MDSSTWSPKTTAVTRPVETHELIRNAADISIIVYFVVVMAVGLWAMFSTNRGTVGGF FLAGRSMVWWPIGASLF ASNIGSGHFVGLAGTGAASGIAIGGFERNALVLVVVLGW LFVPIYIKAGVVTMPEYLRKRFGGQRIQVYLSLLSL LLYIFTKISADIFSGAIFINLALGL NLILAIFLLLAITALYTITGGLAAVIYTDLTQTVIMLVGSLILTGFAFHE VGGYDAFMEK YMKAIPTIVSDGNNTTFQEKCYTPRADSFHIFRDPLTGDLPWPGFIFGMSILTLWYWCT DQVIVQR CLSAKNMSHVKGGCILCGYLKLMPMFIMVMPGMISRILYTEKACVVPSE CEKYCGTKVGCTNIAYPTLVVELMP NGLRGLMLSVMLASLMSSLT SIFNSASTLFTM DIYAKVRKRASEKELMIAGRLFILVLIGISIAWVPIVQSAQSG QLFDYIQSITSYLGPPIA AVFLLAIFWKRVNEPGAFAWGLILGLLIGISRMITEFAYGTGSCMEPSNCPTIICGVH YL

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YFAILFAISFITIVVISLLTKPIPDVHLYRLCWSLRNSKEERIDLDAAEEENIQEGPKETIEI
ETQVPEKKKG IFRRAYDLFCGLEQHGAPKMTEEEKAMKMKMTDTSEKPLWRTVL
NVNGIILVTVAVFCHAYFA

Applications ELISA; WB-Re; AP; Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name SLC5A1 solute carrier family 5 (sodium/glucose cotransporter), member 1 [Homo sapiens (human)]

Official Symbol SLC5A1

Synonyms SLC5A1; solute carrier family 5 (sodium/glucose cotransporter), member 1; SGLT1; sodium/glucose cotransporter 1; D22S675; NAGT; Na⁺/glucose cotransporter 1; high affinity sodium-glucose cotransporter

Gene ID 6523

mRNA Refseq NM_000343

Protein Refseq NP_000334

MIM 182380

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UniProt ID	P13866
Chromosome Location	22q12.3
Pathway	Bile secretion; Carbohydrate digestion and absorption; Hexose transport
Function	glucose:sodium symporter activity; protein binding

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