

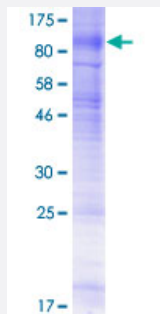
Full-Length

SLC5A1 (Human) Recombinant Protein (P01)

Catalog # H00006523-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human SLC5A1 full-length ORF (AA46581.1, 1 a.a. - 664 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MDSSTWSPKTTAVTRPVETHELIRNAADISIVYFVVMAVGLWAMFSTNRGTVGGFFLAGRSMV
WWPIGASLFASNIGSGHFVGLAGTGAASGIAIGGFEWNALVLVVVLGWLFVPMKAGVVTMPEYLR
KRFGGQRIQVYLSLLSLLYIFTKISADIFSGAIFINLALGLNLYAIFLLAITALYTITGGAAVYTDTLQ
TVIMLVGSLILTGFAFHEVGGYDAFMEKYMKAIPTVSDGNTTFQEKCYTPRADSFHIFRDPLTGDLP
WPGFIFGMSILTLWYWCTDQVIVQRCLSAKNMSHVKGCCILCGYKLMPMFIMVMPGMISRILYTEK
IACVVPSECEKYCGTKVGCTNIAYP TLVVELMPNGLRGLMLSVMLASLMSSLTSIFNSASTLFTMDI
YAKVRKRASEKELMIAGRLFILVLIGISIAWVPIVQSAQSGQLFDYQSITSYLGPPIAAVFLLAIFWKRV
NEPGAFWGLILGLLIGISRMITEFAYGTGSCMEPSNCPTICGVHLYFAIILFAISFITVVISLLTKPIPDV
HLYRLCWSLRNSKEERIDLDAAEENIQEGPKETIEIETQVPEKKKGIFRRAYDLFCGLEQHGAPKMT
EEEEKAMKMKMTDTSEKPLWRTVLNVNGIILVTVAVFCHAYFA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

99.99

Interspecies Antigen Sequence

Mouse (88); Rat (88)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — SLC5A1

Entrez GeneID	6523
GeneBank Accession#	BC146580
Protein Accession#	AA46581.1
Gene Name	SLC5A1
Gene Alias	D22S675, NAGT, SGLT1
Gene Description	solute carrier family 5 (sodium/glucose cotransporter), member 1
Omim ID	182380 606824
Gene Ontology	Hyperlink
Gene Summary	Glucose transporters are integral membrane proteins that mediate the transport of glucose and structurally-related substances across cellular membranes. Two families of glucose transporter have been identified: the facilitated-diffusion glucose transporter family (GLUT family), also known as 'uniporters,' and the sodium-dependent glucose transporter family (SGLT family), also known as 'cotransporters' or 'symporters' (Wright et al., 1994 [PubMed 7823022]). The SLC5A1 gene encodes a protein that is involved in the active transport of glucose and galactose into eukaryotic and some prokaryotic cells.[supplied by OMIM]

Other Designations

Human Na⁺/glucose cotransporter 1 mRNA, complete cds|sodium/glucose cotransporter 1|solute carrier family 5 (sodium/glucose transporter), member 1

Publication Reference

- [Exogenous expression of human SGLT1 exhibits aggregations in sodium dodecyl sulfate polyacrylamide gel electrophoresis.](#)

Huang WC, Hsu SC, Huang SJ, Chen YJ, Hsiao YC, Zhang W, Fidler IJ, Hung MC.

American Journal of Translational Research 2013 May; 5(4):441.

Application: WB-Re, Human, HEK 293 cells

Disease

- [Genetic Predisposition to Disease](#)
- [Hyperparathyroidism](#)
- [Tobacco Use Disorder](#)