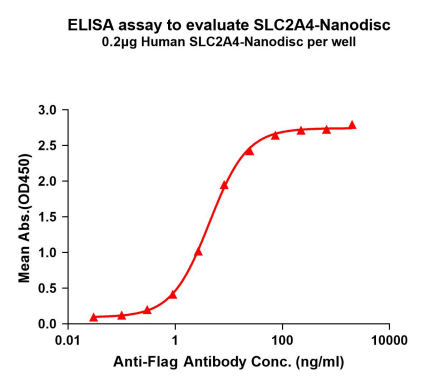
VLP/Nanodisc | Full-Length | HuPro®

SLC2A4 (Human) Recombinant Protein

Catalog # P10796 Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

ELISA plates were pre-coated with Flag Tag SLC2A4-Nanodisc (0.2 ug/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before ELISA reading. From above data, the EC_{50} for anti-Flag monoclonal antibody binding with SLC2A4-Nanodisc is 4.357 ng/mL.

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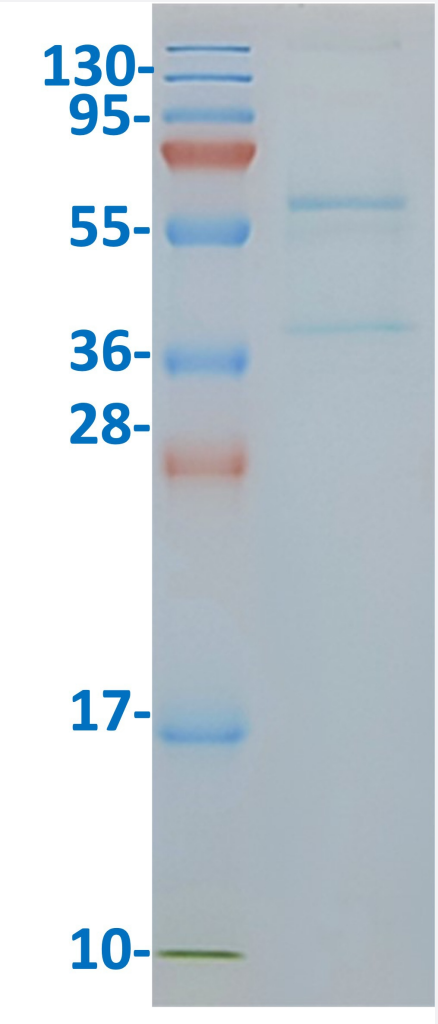

SDS-PAGE

Human SLC2A4-Nanodisc, Flag Tag on SDS-PAGE.

Specification

Product Description	Human SLC2A4 (P14672, 1 a.a. - 509 a.a.) full-length recombinant protein-Nanodisc.
Sequence	MPSGFQQIGSEDGEPPQQRVTGTLVLAVFSAVLGSLQFGYNIGVINAPQKVIEQSYNETW LGRQG PEGPSSIPPGTLTTLWALSVAIFSVGGMISSFLIGIISQWLGRKRAMLVNNVLAV LGGSLMGLANAA ASYEMLILGRFLIGAYSGLTSGLVPMYVGEIAPTHLRGALGTLNQLAI VIGILIAQVLGLESLLGTASL WPLLLGLTVLPALLQLVLLPFCPESPRYLYIQNLEGPA RKSLKRLTGWADVSGVLAELKDEKRKL ERERPLSLLQLLGSRTHRQPLIIAVVLQLSQQL SGINAVFYYSTSIFETAGVGQPAYATIGAGVVNTV FTLVSVLLVERAGRRTLHLLGLAGM CGCAILMTVALLLLERVPAMSYVSIVAIFGFVAFFEIGPGPIP WFIVAELFSQGPRPAAM AVAGFSNWTSNFIIGMGFQYVAEAMGPYVFLLFAVLLLGFFIFTFLRVP ETRGRTFDQIS AAFHRTPSLLEQEVKPSTELEYLGPDEND
Host	Human
Theoretical MW (kDa)	54.6
Reactivity	Human

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Form	Lyophilized
Conjugation	Unconjugated
Preparation Method	Mammalian cell (HEK293) expression system
Recommend Usage	ELISA SDS-PAGE
Storage Buffer	Lyophilized from 20 mM Tris-HCl, 150 mM NaCl, pH 8.0 (5% trehalose).
Storage Instruction	Store at -20°C to -80°C for 12 months. Aliquot to avoid repeated freezing and thawing.

Applications

- Enzyme-linked Immunoabsorbent Assay

  ELISA plates were pre-coated with Flag Tag SLC2A4-Nanodisc (0.2 ug/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before ELISA reading. From above data, the EC_{50} for anti-Flag monoclonal antibody binding with SLC2A4-Nanodisc is 4.357 ng/mL.

- SDS-PAGE

  Human SLC2A4-Nanodisc, Flag Tag on SDS-PAGE.

Gene Info — SLC2A4

Entrez GeneID	6517
Protein Accession#	P14672
Gene Name	SLC2A4
Gene Alias	GLUT4
Gene Description	solute carrier family 2 (facilitated glucose transporter), member 4
Omim ID	138190
Gene Ontology	Hyperlink

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Gene Summary	This gene is a member of the solute carrier family 2 (facilitated glucose transporter) family and en codes a protein that functions as an insulin-regulated facilitative glucose transporter. In the absenc e of insulin, this integral membrane protein is sequestered within the cells of muscle and adipose t issue. Within minutes of insulin stimulation, the protein moves to the cell surface and begins to tra nsport glucose across the cell membrane. Mutations in this gene have been associated with nonin sulin-dependent diabetes mellitus (NIDDM). [provided by RefSeq
Other Designations	glucose transporter 4|insulin-responsive glucose transporter type 4

Pathway

- Adipocytokine signaling pathway
- Insulin signaling pathway
- Type II diabetes mellitus

Disease

- Alzheimer disease
- Atherosclerosis
- Calcinosis
- Cardiovascular Diseases
- Coronary Artery Disease
- Diabetes Complications
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Insulin Resistance
- Lung Neoplasms
- Metabolic Syndrome X
- Neoplasms
- Obesity

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- Osteoporosis
- Polycystic Ovary Syndrome
- Pulmonary Disease
- Urinary Bladder Neoplasms
- Werner syndrome

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