

Biotinylated Human SLC2A4 VLP

Cat. No. SLC-HM0A4B

Description

Source	Recombinant Biotinylated Human SLC2A4 VLP is expressed from HEK293. It contains Met1-Asp509 (It may have cross reaction with anti-His antibody).
Accession	P14672-1
Molecular Weight	The target protein has a predicted MW of 67.46 kDa.
Purity	> 95% as determined by HPLC

Formulation and Storage

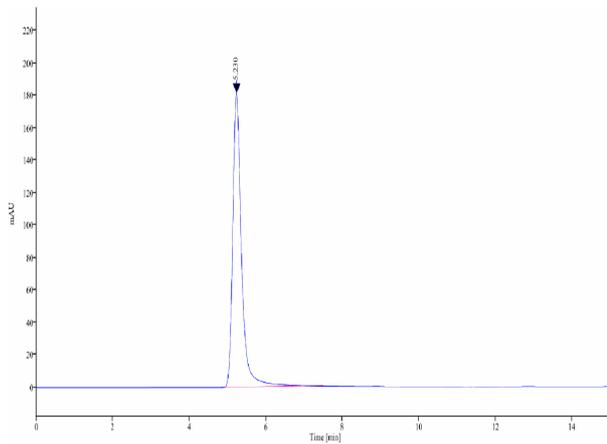
Formulation	Supplied as 0.22 µm filtered solution in PBS, 300mM L-arginine (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

SLC2A4 (GLUT4) is an insulin-responsive glucose transporter mainly expressed in muscle and adipose tissues. Its unique feature is insulin-regulated translocation to the plasma membrane, which determines cellular glucose uptake. Defects in this process are a key molecular basis of insulin resistance and type 2 diabetes.

Assay Data

SEC-HPLC

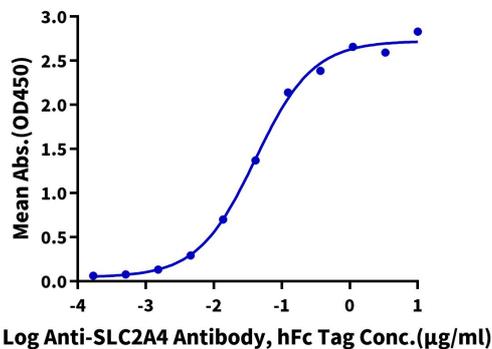


The purity of Biotinylated Human SLC2A4 VLP is greater than 95% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human SLC2A4 VLP ELISA

0.5µg Biotinylated Human SLC2A4 VLP Per Well



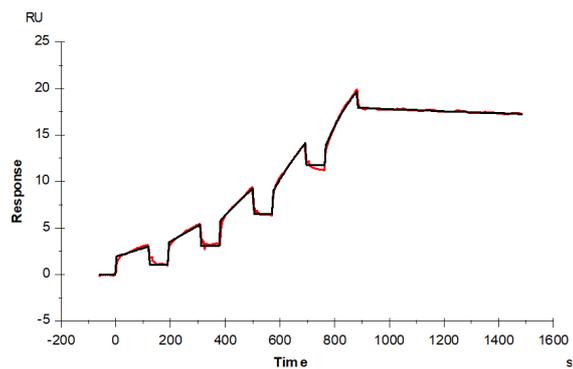
Immobilized Biotinylated Human SLC2A4 VLP at 5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-SLC2A4 Antibody, hFc Tag with the EC50 of 40.9ng/ml determined by ELISA.

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SPR Data



Biotinylated Human SLC2A4 VLP captured on CM5 Chip via Streptavidin can bind Anti-SLC2A4 Antibody, hFc Tag with an affinity constant of 1.01 nM as determined in SPR assay (Biacore S200).