PRODUCT INFORMATION

Tag	C-Flag Tag
Expression Host	HEK293
Target	SLC2A12
Synonyms	GLUT8; GLUT12
Description	Human SLC2A12 full length protein-synthetic nanodisc
Uniprot ID	Q8TD20
Protein Families	Transmembrane
Protein Pathways	N/A
Molecular Weight	The human full length SLC2A12 protein has a MW of 67.0 kDa
Delivery	In Stock
Formulation & Reconstitution	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	SLC2A12 belongs to a family of transporters that catalyze the uptake of sugars through facilitated diffusion. This family of transporters show conservation of 12 transmembrane helices as well as functionally significant amino acid residues.
Usage	Research use only
Conjugate	Unconjugated

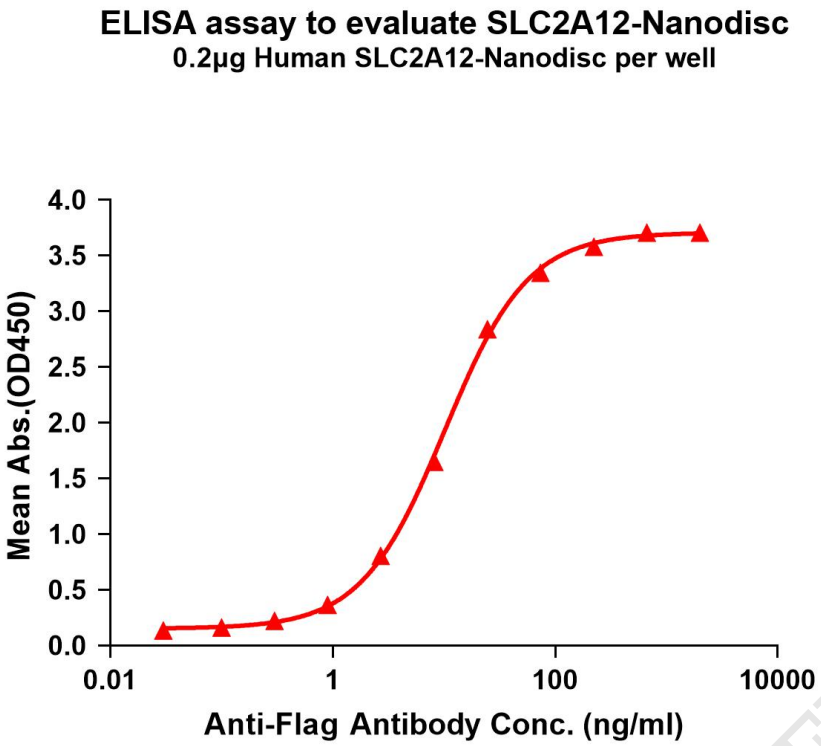

Figure1. Elisa plates were pre-coated with Flag Tag SLC2A12-Nanodisc (0.2μg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with SLC2A12-Nanodisc is 10.17ng/ml.

Figure2. Human SLC2A12-Nanodisc, Flag Tag on SDS-PAGE