PRODUCT INFORMATION

Tag	C-Flag&Strep Tag
Target	VDAC1
Synonyms	PORIN; VDAC-1
Description	Human VDAC1-Strep full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	P21796
Expression Host	HEK293
Protein Families	Ion Channels: Other
Protein Pathways	Calcium signaling pathway, Huntington's disease, Parkinson's disease
Molecular Weight	The human full length VDAC1-Strep protein has a MW of 30.8 kDa
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
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	A voltage-dependent anion channel protein that is a major component of the outer mitochondrial membrane. The encoded protein facilitates the exchange of metabolites and ions across the outer mitochondrial membrane and may regulate mitochondrial functions. This protein also forms channels in the plasma membrane and may be involved in transmembrane electron transport. Alternate splicing results in multiple transcript variants. Multiple pseudogenes of this gene are found on chromosomes 1, 2 3, 6, 9, 12, X and Y.
Usage	Research use only
Conjugate	Unconjugated

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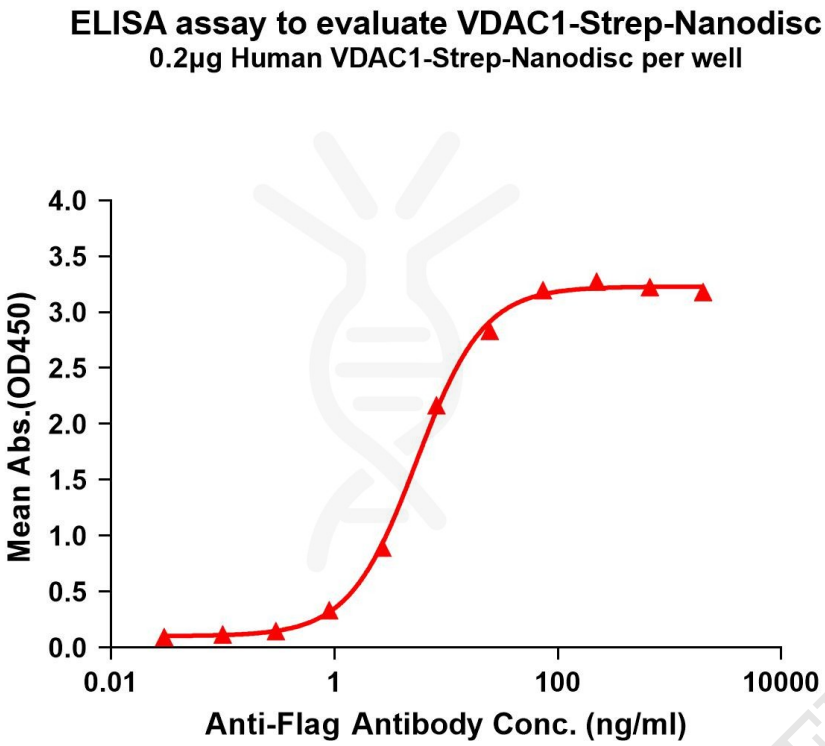

Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag VDAC1-Strep-Nanodisc (0.2μg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with VDAC1-Strep-nanodisc is 5.450ng/ml.

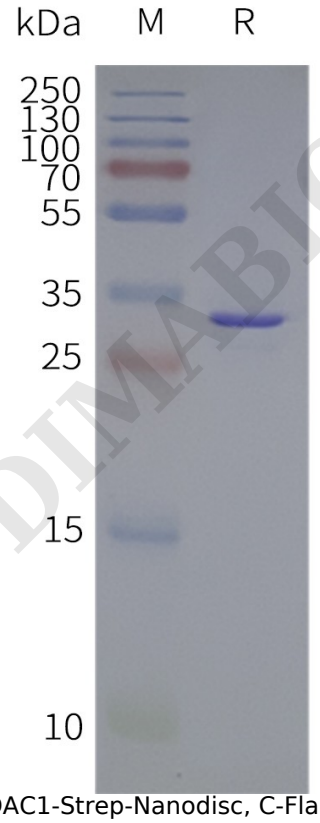

Figure 2. Human VDAC1-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

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