

**PRODUCT INFORMATION**

<b>Tag</b>	C-Flag&Strep Tag
<b>Target</b>	TRPC6
<b>Synonyms</b>	N/A
<b>Description</b>	Human TRPC6-Strep full length protein-synthetic nanodisc
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	Q9Y210
<b>Expression Host</b>	HEK293
<b>Protein Families</b>	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
<b>Protein Pathways</b>	N/A
<b>Molecular Weight</b>	The human full length TRPC6-Strep protein has a MW of 106.3 kDa 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.
<b>Formulation &amp; Reconstitution</b>	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.
<b>Storage &amp; Shipping</b>	
<b>Background</b>	The protein forms a receptor-activated calcium channel in the cell membrane. The channel is activated by diacylglycerol and is thought to be under the control of a phosphatidylinositol second messenger system. Activation of this channel occurs independently of protein kinase C and is not triggered by low levels of intracellular calcium. Defects in this gene are a cause of focal segmental glomerulosclerosis 2 (FSGS2).
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



### ELISA assay to evaluate TRPC6-Strep-Nanodisc 0.2 $\mu$ g Human TRPC6-Strep-Nanodisc per well

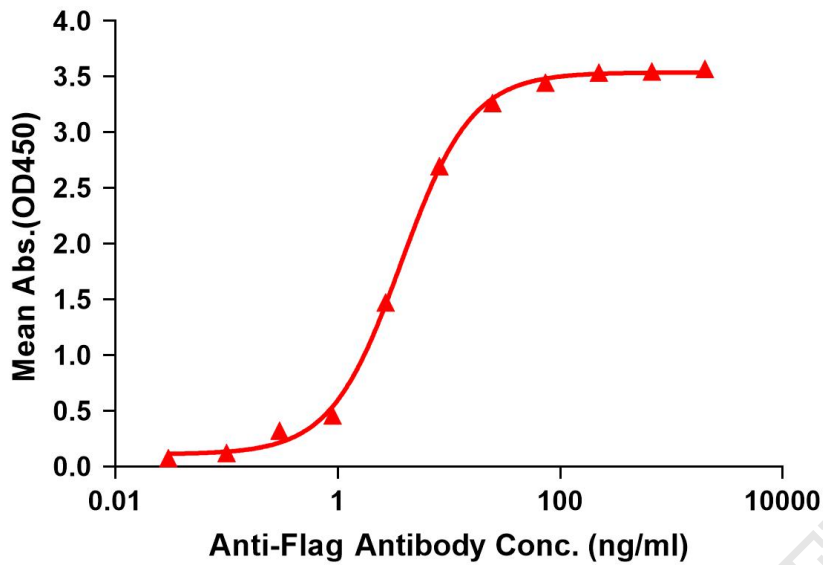


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag TRPC6-Strep-Nanodisc (0.2 $\mu$ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with TRPC6-Strep-nanodisc is 3.712ng/ml.

kDa M R



Figure 2. Human TRPC6-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

