

PRODUCT INFORMATION

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|------------------------------|---|
| Tag | C-Flag&Strep Tag |
| Target | KCNH2 |
| Synonyms | ERG-1; ERG1; H-ERG; HERG; HERG1; Kv11.1; LQT2; SQT1 |
| Description | Human KCNH2-Strep full length protein-synthetic nanodisc |
| Delivery | In Stock |
| Uniprot ID | Q12809 |
| Expression Host | HEK293 |
| Protein Families | Druggable Genome, Ion Channels: Potassium, Transcription Factors, Transmembrane |
| Protein Pathways | N/A |
| Molecular Weight | The human full length KCNH2-Strep protein has a MW of 126.7 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-activated potassium channel belonging to the eag family. It shares sequence similarity with the Drosophila ether-a-go-go (eag) gene. Mutations in this gene can cause long QT syndrome type 2 (LQT2). |
| Usage | Research use only |
| Conjugate | Unconjugated |



ELISA assay to evaluate KCNH2-Strep-Nanodisc
0.2µg Human KCNH2-Strep-Nanodisc per well

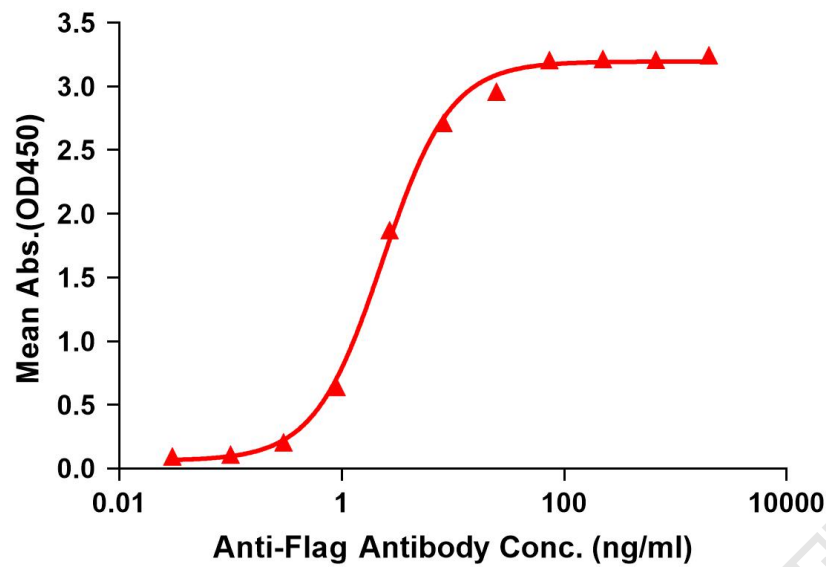


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag KCNH2-Strep-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with KCNH2-Strep-nanodisc is 2.328ng/ml.

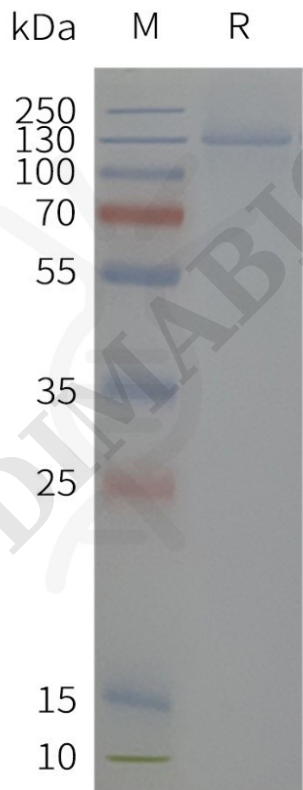


Figure 2. Human KCNH2-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

