

PRODUCT INFORMATION

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| Tag                          | C-Flag&Strep Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Target                       | CA2D1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Synonyms                     | CACNA2, CACNL2A, CCHL2A, LINC01112, IncRNA-N3                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Description                  | Human CA2D1-Strep full length protein-synthetic nanodisc                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Delivery                     | 6~8weeks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Uniprot ID                   | P54289                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Expression Host              | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Protein Families             | Ion Channels: Other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Protein Pathways             | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Molecular Weight             | The human full length CA2D1-Strep protein has a MW of 124.6 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 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.                                                                                                                                      |
| 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                   | The preproprotein encoded by this gene is cleaved into multiple chains that comprise the alpha-2 and delta subunits of the voltage-dependent calcium channel complex. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization. Mutations in this gene can cause cardiac deficiencies, including Brugada syndrome and short QT syndrome. Alternate splicing results in multiple transcript variants, some of which may lack the delta subunit portion. [provided by RefSeq, Nov 2014] |
| Usage                        | Research use only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Conjugate                    | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

