## PRODUCT INFORMATION

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| **Target** | ACH10 |
| **Synonyms** | N/A |
| **Description** | Human ACH10 full length protein-synthetic nanodisc |
| **Delivery** | 6~8weeks |
| **Uniprot ID** | Q9GZZ6 |
| **Expression Host** | HEK293 |
| **Protein Families** | Ion Channels: Cys-loop Receptors |
| **Protein Pathways** | N/A |
| **Molecular Weight** | The human full length ACH10 protein has a MW of 49.7kDa |
| **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 pH lower than 6.5 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** | Ionotropic receptor with a probable role in the modulation of auditory stimuli. Agonist binding may induce an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane. The channel is permeable to a range of divalent cations including calcium, the influx of which may activate a potassium current which hyperpolarizes the cell membrane. In the ear, this may lead to a reduction in basilar membrane motion, altering the activity of auditory nerve fibers and reducing the range of dynamic hearing. This may protect against acoustic trauma.[UniProtKB/Swiss-Prot Function] |
| **Usage** | Research use only |



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