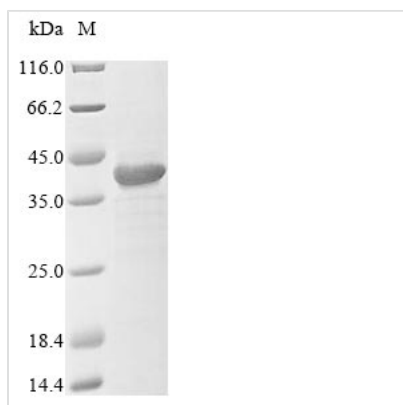


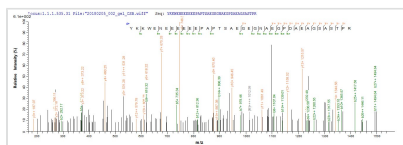


# Recombinant Mouse Voltage-gated hydrogen channel 1 (Hvcn1)

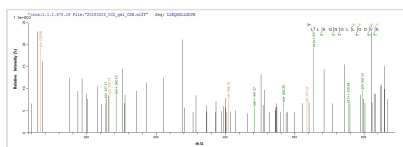
|                          |                                                                                                                                                                                                                                                                                                                               |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>      | CSB-CF661026MO                                                                                                                                                                                                                                                                                                                |
| <b>Relevance</b>         | Mediates the voltage-dependent proton permeability of excitable membranes. Forms a proton-selective channel through which protons may pass in accordance with their electrochemical gradient. Proton efflux, accompanied by membrane depolarization, facilitates acute production of reactive oxygen species in phagocytosis. |
| <b>Abbreviation</b>      | Recombinant Mouse Hvcn1 protein                                                                                                                                                                                                                                                                                               |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.                                               |
| <b>Uniprot No.</b>       | Q3U2S8                                                                                                                                                                                                                                                                                                                        |
| <b>Product Type</b>      | Transmembrane Protein                                                                                                                                                                                                                                                                                                         |
| <b>Immunogen Species</b> | Mus musculus (Mouse)                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>            | Greater than 85% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                   |
| <b>Sequence</b>          | MTSHDPKAVTRRTKVAPTKRMSRFLKHFTVVGDDYHTWNVNYKKWENEEEE<br>EEPAP TSAEGEGNAEGPDAEAGSASTPRQSLDFRSRLRKLFFSSHRFQVHICLV<br>VLDALLVLAELLLDLKIIPEQDYAVTAFHYMSFAILVFFMLEIFFKIFVFRLEFF<br>HHKFEILDAFVVVVSFVLDLVLLFKSHHFEALGLLILLRLWRVARIINGIIISVKTRS<br>ERQILRLKQINIQLATKIQHLEFSCSEKEQEIERLNKLLKQNGLLGDVN                                  |
| <b>Research Area</b>     | Immunology                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>            | in vitro E.coli expression system                                                                                                                                                                                                                                                                                             |
| <b>Target Names</b>      | Hvcn1                                                                                                                                                                                                                                                                                                                         |
| <b>Protein Names</b>     | Hydrogen voltage-gated channel 1 Short name: HV1 Voltage sensor domain-only protein Short name: mVSOP Bts, Vsop                                                                                                                                                                                                               |
| <b>Expression Region</b> | 1-269aa                                                                                                                                                                                                                                                                                                                       |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                                                                           |
| <b>Tag Info</b>          | N-terminal 10xHis-tagged                                                                                                                                                                                                                                                                                                      |
| <b>Mol. Weight</b>       | 36.7 kDa                                                                                                                                                                                                                                                                                                                      |
| <b>Protein Length</b>    | Full Length                                                                                                                                                                                                                                                                                                                   |
| <b>Image</b>             |                                                                                                                                                                                                                                                                                                                               |



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-CF661026MO could indicate that this peptide derived from E.coli-expressed Mus musculus (Mouse) Hvcn1.



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## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.