

# Recombinant Full Length Human HVCN1 Protein

**Cat. No.** HVCN1-5722HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human HVCN1 full-length ORF (ADZ15859.1) recombinant protein without tag.                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 481 amino acids                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | HVCN1 is a voltage-gated proton channel highly expressed in immune tissues. Channels like HVCN1 mediate the proton conductances required by phagocytic leukocytes for the oxidative burst that underlies microbial killing (Ramsey et al., 2006 [PubMed 16554753]).[supplied by OMIM            |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | 30.1 kDa                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MATWDEKAVTRRAKVAPAERMSKFLRHFTVVGDDYHAWNINYKKWENEEEEEEEE<br>QPPPTPVSGEEGRAAAPDVAPAPGPAPRAPLDFRGMLRKLFSSHRFQVIIIICLVLD<br>ALLVLAELILDLKIIQPDKNNYAAMVFHYMSITLVFFMMEIIFKLFVFRLEFFHHKFEILD<br>AVVVVVSFILDIVLLFQEHQFEALGLLILLRLWRVARIINGIIISVKTRSERQLRLKQMN<br>VQLAAKIQHLEFSCSEKEQEIERLNKLLRQHGLLGEVN |
| <b>Applications</b>     | Antibody Production<br>Functional Study                                                                                                                                                                                                                                                         |

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### Compound Screening

|                       |                                                                          |
|-----------------------|--------------------------------------------------------------------------|
| <b>Notes</b>          | Best use within three months from the date of receipt of this protein.   |
| <b>Storage</b>        | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing. |
| <b>Storage Buffer</b> | 25 mM Tris-HCl of pH8.0 containing 2% glycerol.                          |

## GENE INFORMATION

|                        |                                                                                                                                                                              |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | HVCN1 hydrogen voltage-gated channel 1 [ Homo sapiens ]                                                                                                                      |
| <b>Official Symbol</b> | HVCN1                                                                                                                                                                        |
| <b>Synonyms</b>        | HVCN1; hydrogen voltage-gated channel 1; voltage-gated hydrogen channel 1; Hv1; MGC15619; voltage sensor domain only protein; VSOP; voltage sensor domain-only protein; HV1; |
| <b>Gene ID</b>         | 84329                                                                                                                                                                        |
| <b>mRNA Refseq</b>     | NM_001040107                                                                                                                                                                 |
| <b>Protein Refseq</b>  | NP_001035196                                                                                                                                                                 |
| <b>MIM</b>             | 611227                                                                                                                                                                       |
| <b>UniProt ID</b>      | Q96D96                                                                                                                                                                       |

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