

# Recombinant Full Length Dog Aquaporin-1(Aqp1) Protein, His-Tagged

**Cat. No.** RFL21092CF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                   |
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| <b>Product Overview</b> | Recombinant Full Length Dog Aquaporin-1(AQP1) Protein (Q9N2J4) (1-271aa), fused to N-terminal His tag, was expressed in E. coli.                                                                                                                                                                  |
| <b>Species</b>          | Dog                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | Full Length (1-271)                                                                                                                                                                                                                                                                               |
| <b>Form</b>             | Lyophilized powder                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MASEFKKKLFWRAVVAEFLAMILFVFISIGSALGFNYPVRNNQTAGAAQDNVKVSLA<br>FGLSIATLAQSVGHISGAHLNPAVTLGLLLSCQISILRAVMYIIAQCVGAI VATAILSGIT<br>SSLPDNSLGRNELAPGVNSGQGLGIEIIGTLQLVLCVLATTD RRRRDLGGSGPLAIGL<br>SVALGHLLAIDYTGCGINPARSFGSSVITHNFKDHWIFWVGPFIGGALAVLIYDFILAP<br>RSSDLTDRVKVWTSGQVEEYELDGDDINSRVEMKPK |
| <b>Purity</b>           | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                       |
| <b>Notes</b>            | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                                               |
| <b>Storage</b>          | Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                    |

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|                       |                                             |
|-----------------------|---------------------------------------------|
| <b>Storage Buffer</b> | Tris/PBS-based buffer, 6% Trehalose, pH 8.0 |
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|                       |                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Reconstitution</b> | 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. |
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## GENE INFORMATION

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| <b>Gene Name</b> | AQP1 |
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| <b>Synonyms</b> | AQP1; Aquaporin-1; AQP-1; Aquaporin-CHIP; Water channel protein for red blood cells and kidney proximal tubule |
|-----------------|----------------------------------------------------------------------------------------------------------------|

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| <b>UniProt ID</b> | <a href="#">Q9N2J4</a> |
|-------------------|------------------------|

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