

Recombinant Rat Aqp1, His-tagged

Cat. No. Aqp1-3595R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Aquaporin-1 (Aqp1)
Species	Rat
Source	E.Coli/Yeast
ProteinLength	269
Description	integral membrane protein that is a major water transport molecule in the kidney proximal tubule and red blood cells .
Form	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.
Purity	>90%
Notes	Small volumes of Aqp1 recombinant protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice.
Storage	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.
Storage Buffer	PBS pH 7.4, 50% glycerol

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Warning

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GENE INFORMATION

Gene Name [Aqp1 aquaporin 1 \[Rattus norvegicus \]](#)

Official Symbol Aqp1

Synonyms AQP1; aquaporin 1; aquaporin-1; AQP-1; aquaporin-CHIP; Aquaporin 1 (aquaporin channel forming integral protein 28 (CHIP)); water channel protein for red blood cells and kidney proximal tubule; CHIP28;

Gene ID [25240](#)

mRNA Refseq [NM_012778](#)

Protein Refseq [NP_036910](#)

Pathway

Aquaporin-mediated transport, organism-specific biosystem; Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem; Proximal tubule bicarbonate reclamation, organism-specific biosystem; Proximal tubule bicarbonate reclamation, con

Function

ammonia transmembrane transporter activity; ammonia transmembrane transporter activity; carbon dioxide transmembrane transporter activity; carbon dioxide transmembrane transporter activity; ephrin receptor binding; ephrin receptor binding; glycerol transmembrane transporter activity; glycerol transmembrane transporter activity; intracellular cGMP activated cation channel activity; intracellular cGMP activated cation channel activity; nitric oxide transmembrane transporter activity; nitric oxide transmembrane transporter activity; potassium channel activity; potassium

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channel activity; potassium ion transmembrane transporter activity; protein binding;
transmembrane transporter activity; transporter activity; water channel activity; water
channel activity; water transmembrane transporter activity;

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