

Recombinant Rat Aqp4 protein, His & GST-tagged

Cat. No. Aqp4-2602R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Aqp4 aa. (Asp179~Asp314) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Rat
Source	E.coli
ProteinLength	Asp179~Asp314
Description	This gene encodes a member of the aquaporin family of intrinsic membrane proteins that function as water-selective channels in the plasma membranes of many cells. This protein is the predominant aquaporin found in brain and has an important role in brain water homeostasis. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. A recent study provided evidence for translational readthrough in this gene and expression of an additional C-terminally extended isoform via the use of an alternative in-frame translation termination codon.
Form	Freeze-dried powder
Molecular Mass	45kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>98%

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Characteristic	The isoelectric point is 6.2.
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200g/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex

GENE INFORMATION

Gene Name	Aqp4 aquaporin 4 [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Aqp4
Synonyms	Aqp4; aquaporin 4; Miwc; WCH4; AQP-4; aquaporin-4; mercurial-insensitive water channel
Gene ID	25293

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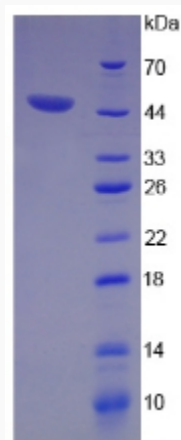
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mRNA Refseq [NM_001270558.2](#)

Protein Refseq [NP_001257487.1](#)

UniProt ID [P47863](#)

SDS-PAGE



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