

Recombinant Human AQP4, GST-tagged

Cat. No. AQP4-9782H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human AQP4 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	208-323a.a.
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. The encoded protein is the predominant aquaporin found in brain. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name	AQP4 aquaporin 4 [Homo sapiens]
Official Symbol	AQP4

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Synonyms	AQP4; aquaporin 4; aquaporin-4; MIWC; WCH4; aquaporin type4; mercurial-insensitive water channel; HMIWC2; MGC22454;
Gene ID	361
mRNA Refseq	NM_001650
Protein Refseq	NP_001641
MIM	600308
UniProt ID	P55087
Chromosome Location	18q11.2-q12.1
Pathway	Aquaporin-mediated transport, organism-specific biosystem; Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem; Passive Transport by Aquaporins, organism-specific biosystem; Regulation of Water Balance by Renal Aquaporins, organism-specific biosystem; Transmembrane transport of small molecules, organism-specific biosystem; Vasopressin-regulated water reabsorption, organism-specific biosystem;
Function	transporter activity; water channel activity; water transmembrane transporter activity;

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