

Recombinant Human AQP7 Protein, His-tagged

Cat. No. AQP7-238H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human AQP7 Protein (Gly218-Phe342) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gly218-Phe342
Description	This gene encodes a member of the aquaporin family of water-selective membrane channels. The encoded protein localizes to the plasma membrane and allows movement of water, glycerol and urea across cell membranes. This gene is highly expressed in the adipose tissue where the encoded protein facilitates efflux of glycerol. In the proximal straight tubules of kidney, the encoded protein is localized to the apical membrane and prevents excretion of glycerol into urine. The encoded protein is present in spermatids, as well as in the testicular and epididymal spermatozoa suggesting an important role in late spermatogenesis. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. This gene is located adjacent to a related aquaporin gene on chromosome 9. Multiple pseudogenes of this gene have been identified.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 17.4 kDa Accurate Molecular Mass: 17 kDa

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Purity	> 95%
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 centigrade 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 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	AQP7 aquaporin 7 [Homo sapiens (human)]
Official Symbol	AQP7
Synonyms	AQP7; aquaporin 7; AQP7L; aquaporin-7; AQP9; AQPap; AQP-7; aquaporin adipose; aquaglyceroporin-7; GLYCQTL; MGC149555; MGC149556
Gene ID	364
mRNA Refseq	NM_001170
Protein Refseq	NP_001161

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MIM	602974
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UniProt ID	O14520
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