

Recombinant Human AQP3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. AQP3-6031H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	AQP3 MS Standard C13 and N15-labeled recombinant protein (NP_004916) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes the water channel protein aquaporin 3. Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein, also known as aquaporin 0. Aquaporin 3 is localized at the basal lateral membranes of collecting duct cells in the kidney. In addition to its water channel function, aquaporin 3 has been found to facilitate the transport of nonionic small solutes such as urea and glycerol, but to a smaller degree. It has been suggested that water channels can be functionally heterogeneous and possess water and solute permeation mechanisms. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms.
Molecular Mass	31.5 kDa
AA Sequence	MGRQKELVSRCGEMLHIRYRLLRQALAECLGTLILVMFGCGSVAQVLSRGTHGGF LTINLAFGFAVTLGILIAGQVSGAHLNPAVTFAMCFLAREPWIKLPIYTLAQTLAGAFLGA GIVFGLYYDAIWHFADNQLFVSGPNGTAGIFATYPSGHLDMINGFFDQFIGTASLIVC VLAIVDPYNNPVPRGLEAFTVGLVVLVIGTSMGFNSGYAVNPARDFGPRLFTALAGW

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	GSVFTTGQHWVPIVSPLLGSIAGVFVYQLMIGCHLEQPPPSNEEENVKLAHVK HKEQITRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	AQP3 aquaporin 3 (Gill blood group) [Homo sapiens (human)]
Official Symbol	AQP3
Synonyms	AQP3; aquaporin 3 (Gill blood group); aquaporin 3, aquaporin 3 (GIL blood group); aquaporin-3; GIL; Gill blood group; aquaglyceroporin-3; aquaporin 3 (GIL blood group); AQP-3;
Gene ID	360
mRNA Refseq	NM_004925
Protein Refseq	NP_004916
MIM	600170

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UniProt ID

Q92482

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