

Active Recombinant Full Length Human AQP3 Protein, C-Flag-tagged

Cat. No. AQP3-289HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human AQP3 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	In vivo treatment
Molecular Mass	31.4 kDa
AA Sequence	MGRQKELVSRCGEMLHIRYRLLRQALAECLGTLILVMFGCGSVAQVVL SRGTHGGF

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LTINLAFGFAVTLG ILIAGQVSGAHLNPAVTFAMCFLAREPWIKLPIYTLAQTLGAFLG
 AGIVFGLYYDAIWHFADNQLFVSGP NGTAGIFATYPSGHLDMINGFFDQFIGTASLIV
 CVLAIVDPYNNPVPRGLEAFTVGLVVLVIGTSMGFNS GYAVNPARDFGPRLFTALAG
 WGSAVFTTGQHWWWVPIVSPLLGSAGVFVYQLMIGCHLEQPPPSNEEEN
 VKLAHVKHKEQITRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Full Length	Full L.

GENE INFORMATION

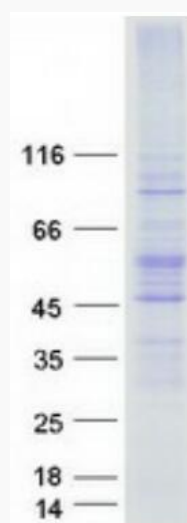
Gene Name	AQP3 aquaporin 3 (Gill blood group) [Homo sapiens (human)]
Official Symbol	AQP3
Synonyms	GIL; AQP-3
Gene ID	360

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mRNA Refseq	NM_004925.5
Protein Refseq	NP_004916.1
MIM	600170
UniProt ID	Q92482



Coomassie blue staining of purified AQP3 protein.

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