

Product datasheet for **TP301856M**

Aquaporin 3 (AQP3) (NM_004925) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human aquaporin 3 (Gill blood group) (AQP3), 100 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC201856 protein sequence
Red=Cloning site **Green**=Tags(s)

MGRQKELVSRGEMLHIRYRLLRQALAECLGTLILVMFGCGSVAQVLSRGTHGGFLTINLAFGFAVTLG
ILIAGQVSGAHLNPAVTFAMCFLAREPWIKLPIYTLAQTLAGAFLGAGIVFGLYYDAIWHFADNQLFVSGP
NGTAGIFATYPSGHLDMINGFFDQFIGTASLIVCVLAIVDPYNNPVPRGLEAFTVGLVVLVIGTSMGFNS
GYAVNPARDFGPRLFTALAGWGSVFTTGQHWVWVPIVSPLLGSIAGVFVYQLMIGCHLEQPPPSNEEEN
VKLAHVKHKEQI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 31.4 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Bioactivity: In vivo treatment (PMID: [25490291](https://pubmed.ncbi.nlm.nih.gov/25490291/))

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_004916](https://www.ncbi.nlm.nih.gov/RefSeq/record/NP_004916)



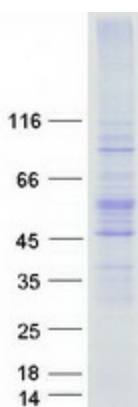
[View online »](#)

Locus ID:	360
UniProt ID:	Q92482
RefSeq Size:	1882
Cytogenetics:	9p13.3
RefSeq ORF:	876
Synonyms:	AQP-3; GIL

Summary: 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. [provided by RefSeq, Dec 2015]

Protein Families: Druggable Genome, Transmembrane

Product images:



Coomassie blue staining of purified AQP3 protein (Cat# [TP301856]). The protein was produced from HEK293T cells transfected with AQP3 cDNA clone (Cat# [RC201856]) using MegaTran 2.0 (Cat# [TT210002]).