

## Product datasheet for PH305304

### Aquaporin 1 (AQP1) (NM\_198098) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	AQP1 MS Standard C13 and N15-labeled recombinant protein (NP_932766)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205304
Predicted MW:	28.6 kDa
Protein Sequence:	>RC205304 protein sequence Red=Cloning site Green=Tags(s)  MASEFKKKLFWRAVVAEFLATTLFVVISIGSALGFKYPVGNQTTVQDNVKVSLAFGLSIATLAQSVGHI SGAHLNPAVTLGLLLSCQISIFRALMYIIAQCVGAIVATAILSGITSSLTGNSLGRNDLADGVNSGQGLG IEIIGTLQLVLCVLATDRRRRDLGGSAPLAIGLSVALGHLLAIDYTGCGINPARSFGSAVITHNFSNHW IFWVGPFIGGALAVLIYDFILAPRSSDLTDRVKVWTSQQVEEYDL DADDINSRVEMKPK  TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_932766</a>
RefSeq Size:	2807
RefSeq ORF:	807
Synonyms:	AQP-CHIP; CHIP28; CO
Locus ID:	358
UniProt ID:	<a href="#">P29972</a> , <a href="#">A0A024RA31</a>



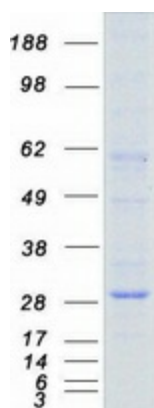
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**Cytogenetics:** 7p14.3

**Summary:** This gene encodes a small integral membrane protein with six bilayer spanning domains that functions as a water channel protein. This protein permits passive transport of water along an osmotic gradient. This gene is a possible candidate for disorders involving imbalance in ocular fluid movement. [provided by RefSeq, Aug 2016]

**Protein Families:** Druggable Genome, Ion Channels: Other, Transmembrane

**Product images:**



Coomassie blue staining of purified AQP1 protein (Cat# [TP305304]). The protein was produced from HEK293T cells transfected with AQP1 cDNA clone (Cat# [RC205304]) using MegaTran 2.0 (Cat# [TT210002]).