

## Product datasheet for PH312363

### Aquaporin 7 (AQP7) (NM\_001170) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	AQP7 MS Standard C13 and N15-labeled recombinant protein (NP_001161)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC212363
Predicted MW:	37.1 kDa
Protein Sequence:	>RC212363 representing NM_001170 Red=Cloning site Green=Tags(s)  MVQASGHRSTRGSKMVSWSVIAKIQEILQRKMRVREFLAEFMSTYVMMVFGLGSVAHMLNKKYGSYLGV NLGFGFGVTMGVHVAGRISGAHMNAAVTFANCALGRVPWRKFPVYVLGQFLGSFLAAATIYSLFYTAILH FSGGQLMVTGPVATAGIFATYLPDHMTLWRGFLNEAWLTGMLQLCLFAITDQENNPALPGTEALVIGILV VIIGVSLGMNTGYAINPSRDLPPRIFTFIAGWGKQVFSNGENWWWVPPVAPLLGAYLGGIIYLVFIGSTI PREPLKLEDSVAYEDHGITVLPKMGSHIPTISPLTPVSVSPANRSSHVPAPPLHESMALEHF  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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:	<u>NP_001161</u>
RefSeq Size:	1258
RefSeq ORF:	1026
Synonyms:	AQP7L; AQPap; GLYCQTL
Locus ID:	364



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UniProt ID: [O14520](#)

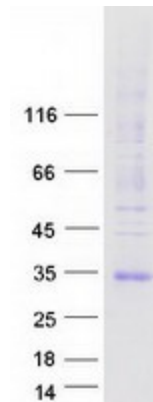
Cytogenetics: 9p13.3

**Summary:** 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. [provided by RefSeq, Dec 2015]

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** PPAR signaling pathway

### Product images:



Coomassie blue staining of purified AQP7 protein (Cat# [TP312363]). The protein was produced from HEK293T cells transfected with AQP7 cDNA clone (Cat# [RC212363]) using MegaTran 2.0 (Cat# [TT210002]).