

Product datasheet for **TP312363**

Aquaporin 7 (AQP7) (NM_001170) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human aquaporin 7 (AQP7), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC212363 representing NM_001170 Red=Cloning site Green=Tags(s)

MVQASGHRRSTRGSKMVSWSVIAKIQEILQRKMOVREFLAEFMSTYVMMVFGLGSAHMLNKKYGSYLGV
NLGFGFGVTMGVHVAGRISGAHMNAAVTFANCALGRVPWRKFPVYVLGQFLGSFLAAATIYSLFYTAILH
FSGGQLMVTGPVATAGIFATYLPDHMTLWRGFLNEAWLTGMLQLCLFAITDQENNPALPGTEALVIGILV
VIIGVSLGMNTGYAINPSRDLPPRIFTFIAGWGKQVFSNGENWWWVPVAPLLGAYLGGIYLVFIGSTI
PREPLKLEDSVAYEDHGITVLPKMGSHEPTISPLTPVSVSPANRSSVHPAPPLHESMALEHF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	37.1 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
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:	<u>NP_001161</u>
Locus ID:	364



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UniProt ID: [Q14520](#)

RefSeq Size: 1258

Cytogenetics: 9p13.3

RefSeq ORF: 1026

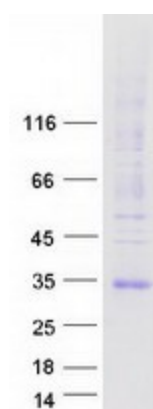
Synonyms: AQP7L; AQPap; GLYCQTL

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]).