

Product datasheet for TP304693

Aquaporin 4 (AQP4) (NM_001650) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human aquaporin 4 (AQP4), transcript variant a, full-length, with C-terminal Myc-DDK tag, expressed in HEK293T cells, 20ug
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204693 representing NM_001650 Red =Cloning site Green =Tags(s) MS DRPTARRWGKCGPLCTRENIMVAFKGVWTQAFWKAVTAEF LAMLIFVLLSLGSTINWGGTEKPLPVD M VLISLCFGLSIATMVQC FGHISGGHINPAVTVMVCTRKISIAKSVFYAAQCLGAIIGAGILYLTPPS VVGG LGVTMVHGNLTAGHGLLVELIITFQLVFTIFASCD SKRTDVTGSIALAIGFSAIGHLFAINYTGA SMNPARSFGPAVIMGNWENHWIYWVGPIIGAVLAGGLYEYVFCPDVEFKRRFKEAFSKAAQQT KGSYME V EDNRSQVETDDLILKPGVHVHVIDVDRGEEKKGKDQSGEVLSSV TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	34.6 kDa
Concentration:	>50 ug/mL as determined by Microplate Bradford Protein Assay method
Purity:	> 90% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, and 10% glycerol, pH 7.3
Stability:	Stable for at least 1 year from receipt of products under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_001641</u>
Locus ID:	361
UniProt ID:	<u>P5508Z</u> , <u>F1DSG4</u> , <u>P55087-1</u>
RefSeq Size:	5216
Cytogenetics:	18q11.2


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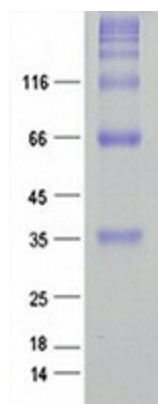
RefSeq ORF: 969

Synonyms: MIWC; WCH4

Summary: This gene encodes a member of the aquaporin family of intrinsic membrane proteins that function as water-selective channels in the plasma membranes of many cells. This protein is the predominant aquaporin found in brain and has an important role in brain water homeostasis. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. Additional isoforms, resulting from the use of alternative in-frame translation initiation codons, have also been described. Recent studies provided evidence for translational readthrough in this gene, and expression of C-terminally extended isoforms via the use of an alternative in-frame translation termination codon. [provided by RefSeq, Jun 2018]

Protein Families: Druggable Genome, Transmembrane

Product images:



Coomassie blue staining of purified AQP4 protein (Cat #TP304693). The protein was produced from mammalian cells transfected with AQP4 cDNA clone (Cat #[RC204693]).