

Product datasheet for PH301856

Aquaporin 3 (AQP3) (NM_004925) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	AQP3 MS Standard C13 and N15-labeled recombinant protein (NP_004916)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201856
Predicted MW:	31.5 kDa
Protein Sequence:	>RC201856 protein sequence Red =Cloning site Green =Tags(s) MGRQKELVSRGEMLHIRYRLLRQALAECLGTLILVMFGCGSVAQVLSRGTHGGFLTINLAFGFVTLG ILIAGQVSGAHLNPAVTFAMCFLAREPWIKLPIYTLAQTLGAFLGAGIVFGLYYDAIWHFADNQLFVSGP NGTAGIFATYPSGHLDMINGFFDQFIGTASLIVCVLAIIVDPYNNPVPRGLEAFTVGLVVLVIGTSMGFNS GYAVNPARDFGPRLFTALAGWGSVFTTGQHWVPIVSPLLGSIAGVFVYQLMIGCHLEQPPPSNEEEN VKLAHVKHKEQI 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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_004916</u>
RefSeq Size:	1882
RefSeq ORF:	876
Synonyms:	AQP-3; GIL
Locus ID:	360



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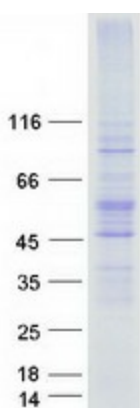
UniProt ID: [Q92482](#)

Cytogenetics: 9p13.3

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]).