

Product datasheet for PH316816

Vasopressin (AVP) (NM_000490) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	AVP MS Standard C13 and N15-labeled recombinant protein (NP_000481)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216816
Predicted MW:	17.32 kDa
Protein Sequence:	>RC216816 representing NM_000490 Red =Cloning site Green =Tags(s) MPDTMLPACFLGLLAFSSACYFQNCPRGGKRAMSDLELRQCLPCGPGGKGRFCGSPISCCADELGCFVGTAEALRCQEENYLPSPCQSGQKACGSGGRCAAFGVCCNDESCVTEPECREGFHRRARASDRSNATQLDGPAGALLRLVQLAGAPEPFEPAPDAY TR TRPLEQ KL ISEEDLAANDILDYKDDDDKV
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:	NP_000481
RefSeq Size:	633
RefSeq ORF:	492
Synonyms:	ADH; ARVP; AVP-NPII; AVRP; VP
Locus ID:	551
UniProt ID:	P01185 , X5DQP6



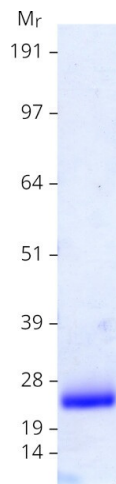
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Cytogenetics: 20p13

Summary: This gene encodes a member of the vasopressin/oxytocin family and preproprotein that is proteolytically processed to generate multiple protein products. These products include the neuropeptide hormone arginine vasopressin, and two other peptides, neurophysin 2 and copeptin. Arginine vasopressin is a posterior pituitary hormone that is synthesized in the supraoptic nucleus and paraventricular nucleus of the hypothalamus. Along with its carrier protein, neurophysin 2, it is packaged into neurosecretory vesicles and transported axonally to the nerve endings in the neurohypophysis where it is either stored or secreted into the bloodstream. The precursor is thought to be activated while it is being transported along the axon to the posterior pituitary. Arginine vasopressin acts as a growth factor by enhancing pH regulation through acid-base transport systems. It has a direct antidiuretic action on the kidney, and also causes vasoconstriction of the peripheral vessels. This hormone can contract smooth muscle during parturition and lactation. It is also involved in cognition, tolerance, adaptation and complex sexual and maternal behaviour, as well as in the regulation of water excretion and cardiovascular functions. Mutations in this gene cause autosomal dominant neurohypophyseal diabetes insipidus (ADNDI). This gene is present in a gene cluster with the related gene oxytocin on chromosome 20. [provided by RefSeq, Nov 2015]

Protein Families: Druggable Genome, Secreted Protein

Product images:



Coomassie blue staining of purified AVP protein (Cat# [TP316816]). The protein was produced from HEK293T cells transfected with AVP cDNA clone (Cat# [RC216816]) using MegaTran 2.0 (Cat# [TT210002]).