

ARG83003 Arg8 Vasopressin ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG83003 Arg8 Vasopressin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human, Mouse, Rat, Sheep, Dog Arg8 Vasopressin in plasma.
Tested Reactivity	Hu, Ms, Rat, Dog, Sheep
Tested Application	ELISA
Specificity	Cross-Reactivity: [Arg8]-Vasopressin (Human, Mouse, Rat, Ovine, Canine): 100%; [Arg8]-Vasotocin: 54%; [Lys8]-Vasopressin (Human, Rat, Mouse, Ovine), Deamino-[D-Arg8]-Vasopressin, Oxytocin, LH-RH, ACTH (Human), alpha-ANP (1-28) (Human, Canine), Met-Enkephalin, PACAP38 (Human, Ovine, Rat) and PACAP27-NH2 (Human, Ovine, Rat): 0%.
Target Name	Arg8 Vasopressin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	0.04 ng/ml
Detection Range	0.04 - 0.51 ng/ml
Sample Type	Plasma (Sample extraction is recommended)
Standard Range	0.01 - 100 ng/ml
Sample Volume	50 µl
Precision	Intra-assay: less than 10% Inter-assay: < 15%
Alternate Names	Arginine-vasopressin; Vasopressin-neurophysin 2-Arg8 Vasopressin; Neurophysin-II; AVP; Arginine Vasopressin; ARVP; ADH; Prepro-Arginine-Vasopressin-Neurophysin II; Vasopressin-Neurophysin 2-Copeptin; Antidiuretic Hormone; Neurohypophyseal; Prepro-AVP-NP; Copeptin; AVP-NP II; VP; Vasopressin-Neurophysin II-Copeptin; Diabetes Insipidus; Neurophysin II; AVRP

Application Instructions

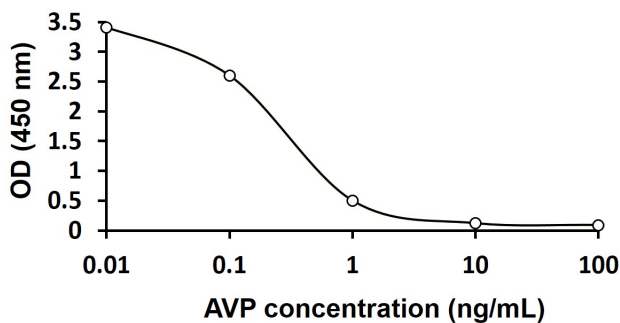
Assay Time	~ 4 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use. This kit cannot ship or deliver to addresses in the following countries: Argentina, Austria, Belgium, China, France, Germany, Hungary, India, Italy, Japan, Liechtenstein, Luxembourg, Mexico, Spain, Switzerland, United Kingdom. Due to the assay method performed by this product is covered by Patent No. EP1738178 in these countries.

Gene Symbol	AVP
Gene Full Name	arginine vasopressin
Background	<p>This gene encodes a precursor protein consisting of arginine vasopressin and two associated proteins, neurophysin 2 and a glycopeptide, Arg8 Vasopressin. Arginine vasopressin is a posterior pituitary hormone which 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). [provided by RefSeq, Mar 2010]</p>
Function	<p>Arg-vasopressin has a direct antidiuretic action on the kidney, it also causes vasoconstriction of the peripheral vessels. Acts by binding to vasopressin receptors (V1bR/AVPR1B, V1aR/AVPR1A, and V2R/AVPR2) (PubMed:18174156) [UniProt]</p>
Highlight	<p>Related products: Vasopressin antibodies; Vasopressin ELISA Kits; Vasopressin Duos / Panels; New ELISA data calculation tool: Simplify the ELISA analysis by GainData</p>

Images



ARG83003 Arg8 Vasopressin ELISA Kit standard curve image

ARG83003 Arg8 Vasopressin ELISA Kit results of a typical standard run with optical density reading at 450 nm.