

ARG81384 Human Copeptin ELISA Kit

Package: 96 wells

Store at: 4°C

Summary

Product Description	ARG81384 Human Copeptin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Copeptin in serum and plasma.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	Cross-Reactivity: Not react with Copeptin (Rat), Vasopressin (Human, Rat, Mouse, Canine), Angiotensin II (Human, Rat, Mouse, Canine), Angiotensin I (Human, Rat, Mouse, Porcine Canine), Endothelin-1 (Human, Rat, Mouse, Porcine, Bovine, Canine) and Urotensin II (Human).
Target Name	Copeptin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	0.12 ng/ml
Detection Range	0.12 - 2.71 ng/ml
Sample Type	Serum and plasma
Standard Range	0.01 - 100 ng/ml
Sample Volume	50 µl
Alternate Names	Arginine-vasopressin; Vasopressin-neurophysin 2-copeptin; VP; AVRP; AVP-NP11; Neurophysin-II; ARVP; ADH

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.

Bioinformation

Gene Symbol	AVP
Gene Full Name	arginine vasopressin

Background

This gene encodes a precursor protein consisting of arginine vasopressin and two associated proteins, neurophysin 2 and a glycopeptide, copeptin. 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]

Function

Neurophysin 2 specifically binds vasopressin.

Vasopressin has a direct antidiuretic action on the kidney, it also causes vasoconstriction of the peripheral vessels. [UniProt]

Highlight

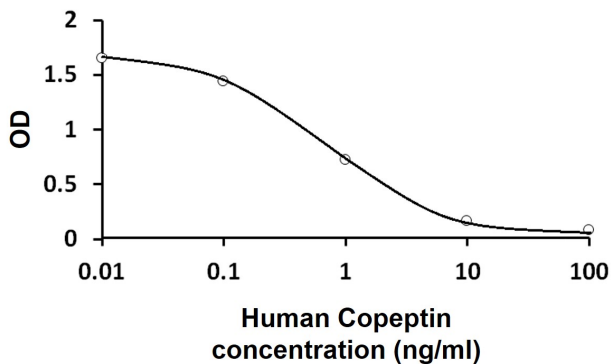
Related products:

[Copeptin antibodies](#); [Copeptin ELISA Kits](#); [Copeptin Duos / Panels](#);

New ELISA data calculation tool:

[Simplify the ELISA analysis by GainData](#)

Images



ARG81384 Human Copeptin ELISA Kit standard curve image

ARG81384 Human Copeptin ELISA Kit results of a typical standard run with optical density reading at 450 nm.