



BMA BIOMEDICALS



Peninsula Laboratories

S-1364

[Deamino-Cys¹, D-Arg⁸]-Vasopressin (Desmopressin) ELISA

Desmopressin is a synthetic octapeptide, analogue of human hormone arginine vasopressin, with antidiuretic and coagulant activities. Desmopressin binds to V₂ receptors in renal collecting ducts which leads to exocytosis of von Willebrand factor (VWF) and tissue plasminogen activator (t-PA) from Weibel-Palade bodies, thereby increasing water resorption. This agent also increases nitric oxide (NO) production via activation of endothelial NO synthase, thereby induces afferent arteriolar vasodilation. Furthermore, desmopressin stimulates the release of factor VIII from endothelial cells mediated through V_{1a} receptor, thereby promotes blood coagulation.

This ELISA was developed with serum from rabbits immunized with Desmopressin coupled to a carrier protein.

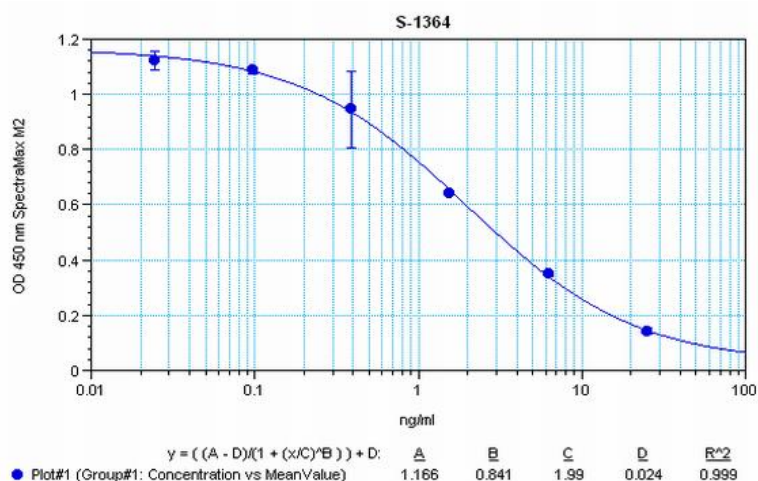
TECHNICAL AND ANALYTICAL CHARACTERISTICS

Lot number:	A17712
Host species:	Rabbit IgG
Quantity:	96 tests
Format:	Extraction-free kit for human serum or plasma (EIAS type).
Shelf-life:	One year from production date. Store refrigerated at 4° - 8°C.
Applications:	This ELISA has been validated with the included reagents. It is intended to be used with samples of human origin (original protocol V, Ab1hr.Std2hr.BtON). For research use only. Please see www.bma.ch for protocols and general information.
Range:	0-25ng/ml
Average IC₅₀:	1.0ng/ml
Immunogen:	Synthetic peptide 3-Mercaptopropionyl-Tyr-Phe-Gln-Asn-Cys-Pro-D-Arg-Gly-NH ₂ , (Disulfide bond) coupled to a carrier protein.

Cross-Reactivity:

PEPTIDE:	%:
[Deamino-Cys ¹ , D-Arg ⁸]-Vasopressin (Desmopressin; DDAVP)	100
[D-Arg ⁸]-Vasopressin	7
Oxytocin	7
[Arg ⁸]-Vasopressin	4
[d-(CH ₂) ₅ , D-Ile ² , Ile ⁴ , Arg ⁸]-Vasopressin	0
ACTH 1-39 (human)	0
LHRH	0

Typical titration curve of Desmopressin in a competitive ELISA with this antibody:



Suggested Preparation of Standards		
	ng/ml	Range: 0.02 to 25ng/ml
Stock	1000	
S1	25.00	Add 25µl Stock + 975µl diluent
S2	6.25	Add 200µl S1 + 600µl diluent
S3	1.56	Add 200µl S2 + 600µl diluent
S4	0.39	Add 200µl S3 + 600µl diluent
S5	0.10	Add 200µl S4 + 600µl diluent
S6	0.02	Add 200µl S5 + 600µl diluent
S0	0.00	500µl diluent

Related Products: T-4828: Rabbit anti Desmopressin, diluted antiserum
 T-4829: Rabbit anti Desmopressin, purified IgG
 S-1365: ELISA, extraction-free for rat serum and plasma samples
 S-1288: ELISA, high sensitivity for extracted samples

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Purchase of this product does not include authorization to use it in diagnostic or therapeutic applications.

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EIAS

1.3.2021