

ARG82265 Oxytocin ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG82265 Oxytocin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Oxytocin in plasma.
Tested Reactivity	Hu, Ms, Rat, Bov
Tested Application	ELISA
Specificity	Cross-Reactivity: Oxytocin: 100% [Lys8]-Vasopressin, [Arg8]-Vasopressin, Growth Hormone (Human), Somatostatin, LH-RH, CRF (Human, Rat), GRF (Human) and PACAP 27-NH2 (Human, Ovine, Rat): 0%
Target Name	Oxytocin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	0.13 ng/ml
Sample Type	Plasma
Standard Range	0.01 - 100 ng/ml
Sample Volume	50 µl
Precision	Intra-Assay CV: less than 10% Inter-Assay CV: less than 15%
Alternate Names	OXT-NPI; OT; OT-NPI; Oxytocin-neurophysin 1; Ocytocin

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.

Bioinformation

Gene Symbol	OXT
Gene Full Name	oxytocin/neurophysin I prepropeptide
Background	This gene encodes a precursor protein that is processed to produce oxytocin and neurophysin I. Oxytocin is a posterior pituitary hormone which is synthesized as an inactive precursor in the

hypothalamus along with its carrier protein neurophysin I. Together with neurophysin, 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 seems to be activated while it is being transported along the axon to the posterior pituitary. This hormone contracts 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. [provided by RefSeq, Dec 2013]

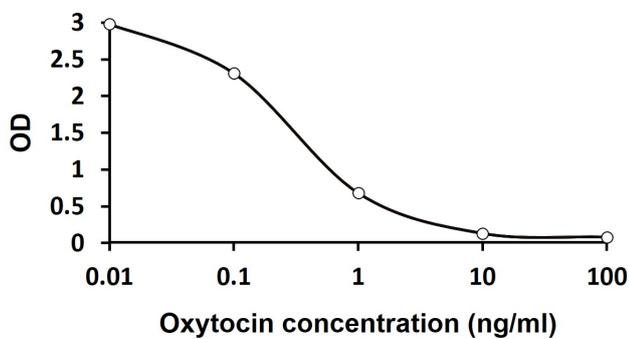
Function Neurophysin 1 specifically binds oxytocin.

Oxytocin causes contraction of the smooth muscle of the uterus and of the mammary gland. [UniProt]

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Cellular Localization Secreted. [UniProt]

Images



ARG82265 Oxytocin ELISA Kit standard curve image

ARG82265 Oxytocin ELISA Kit results of a typical standard run with optical density reading at 450 nm.