Research use only. Not for use in diagnostic procedures.

human Vasopressin V $_{1B}$ Receptor

Product No.:	6110543400UA

Lot No.: 2872500

Material Provided

Membranes:	1 x 400 units / 1000 μL frozen aliquot
Product Information	
Cellular Background:	CHO-K1
GenBank Accession Number:	NM_000707
Unit Size:	18 μg protein / unit
Storage Buffer:	50 mM Tris-HCL (pH 7.4), 0.5mM EDTA, 10mM MgCl ₂ , 10% sucrose.
Storage Conditions:	Store at -80°C. Freeze-thaw is not recommended as it can affect product performance and homogeneity. In order to minimize negative impact of freeze-thawing, flash freeze in liquid nitrogen for 30 seconds prior to transferring to -80°C.
Stability:	This product is stable for at least 3 years from reception if used and stored under recommended conditions.

Quality Control

 B_{max} and K_d are determined using radioactive saturation binding assays (Figure 1). Protein concentration is determined using the BCA method ⁽¹⁾. Ratio-to-Reference (RTR) is determined by dividing the maximal signal of the current lot (B_{max} in fmoles) by the maximal signal of a pre-defined reference tested in parallel. RTR is an indicator of lot-to-lot consistency. *We certify that these results meet our quality release criteria.

Ratio-to-Reference (RTR):	0.72
Expression Level (B _{max}):	0.93 pmol/mg membrane protein.
Kd for [³ H]-(Arg ⁸)-Vasopressin:	0.03 nM
Protein Concentration:	7.2 μg/μL

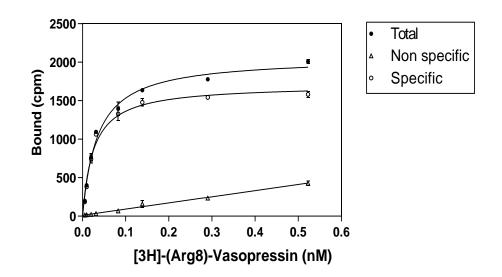
(1) Smith, P.K., et al. (1985). Anal. Biochem. 150, 76-85.

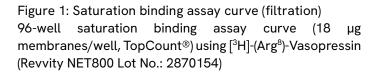


Recommended Assay Conditions

Assay Buffer:	50 mM Tris-HCl pH 7.4, 5 mM MgCl ₂ , 0.1% BSA
Wash Buffer:	50 mM Tris-HCl pH 7.4
Binding Protocol:	Binding assays are performed in 550 μL total volume according to the following conditions:
1 - Membrane dilution:	0.125 mL of membranes + 24.875 mL assay buffer (1:200 dilution)
2 - Incubation:	25 μL of incubation buffer or (Deamino-Cys¹,Val⁴,D-Arg ⁸)-Vasopressin (Bachem H-3176) 10 μM final for non-specific binding (Saturation binding assay)
	For competition binding assay: 25 μL of reference compounds at decreasing concentrations (see figure 2)
	25 μL of radioligand at the appropriate concentration (see graph below) 500 μL of diluted membranes
3 - Incubation time:	90 minutes at 27 °C
4 - Filtration:	aspirate and wash 9 x 500 μL with ice cold wash buffer over GF/C filter (presoaked in 0.3% PEI).

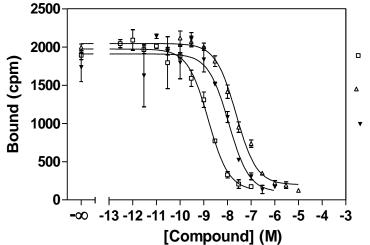
Lot Specific Data







Typical Product Data



- ^a (Arg⁸)-Vasopressin
- (Deamino-Cys¹,ß-(3-pyridyl)-D-Ala²,Arg⁸)-Vasopressin
- (Phenylac¹,D-Tyr(Me)²,Arg^{6,8},Tyr-NH₂⁹)-V asopressin

Figure 2: Competition binding assay curve (filtration) 96-well competition binding assay curve (18 µg membranes/well, TopCount®). Recommended radioligand concentration = 0.1 nM.

*Even though two sites can be observed occasionally with some ligands, the data presented is derived from single site fitting.

Reference Compounds	Ki
	(nM)
(Arg [®])-Vasopressin	0.32
(Deamino-Cys¹,ß-(3-pyridyl)-D-Ala²,Arg®)- Vasopressin	4.8
(Phenylac ¹ ,D-Tyr(Me) ² ,Arg ^{6,8} ,Tyr-NH ₂ ⁹)-Vasopressin	2.3

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Revvity 940 Winter Street Waltham, MA 02451 USA

(800) 762-4000 www.revvity.com

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