

Caution: For Laboratory Use. A research reagent for research purposes only

Human Vasopressin V2 Receptor, γ -Irradiated Frozen Cells

Product No.: ES-363-CF

Lot No.: 1001

Material Provided

Cells:	1 x 1 mL frozen aliquot
Format:	$\sim 2.5 \times 10^6$ cells / mL in DMEM, 10% FBS, 1 mM sodium pyruvate with 10 % DMSO

Product Information

Cellular Background:	CHO-K1
Frozen cells info:	Frozen recombinant, γ -irradiated CHO-K1 cells expressing the human Vasopressin V2 receptor.
DNA Sequence:	Identical to coding sequence of NM_000054.4 with the exception of a silent mutation in codon # 309 (CTA becomes CTG, both coding for a Leu).
Corresponding Protein Sequence:	Identical to GenBank NP_000045.1.
Storage Conditions:	Store in liquid nitrogen (vapor phase) immediately upon receipt, or maximum 15 days at -80°C . cAMPZen [®] is designed for single use only. Do not refreeze.

Quality Control

EC_{50} for a reference agonist is determined using a TR-FRET cAMP assay (Figure 1). Mycoplasma test is performed using MycoAlert[®] Mycoplasma detection kit. We certify that these results meet our quality release criteria.

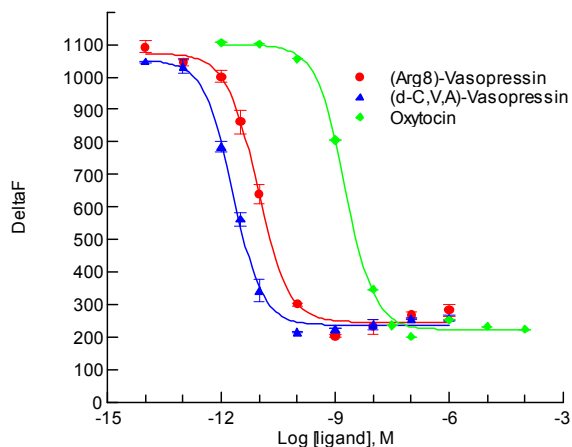
(ARG⁸)-VASOPRESSIN - (EC_{50}):	8.9 pM
Mycoplasma:	This cell line tested negative for Mycoplasma.

Recommended Use and Thawing Conditions

Assay Medium: HBSS 1X (without phenol red); 5 mM HEPES; BSA-stabilizer (7.5% solution); 0.5 mM IBMX (pH 7.4).

Thawing Cells: Using appropriate personal protective equipment, place the frozen aliquot in a 37°C water bath and agitate until its content is thawed completely. Immediately remove from water bath, transfer content to 10 mL assay medium and centrifuge (150 x g, 5 min). Resuspend cell pellet in appropriate volume of assay medium for use in the selected LANCE[®] cAMP assay (see LANCE[®] cAMP Assays section).

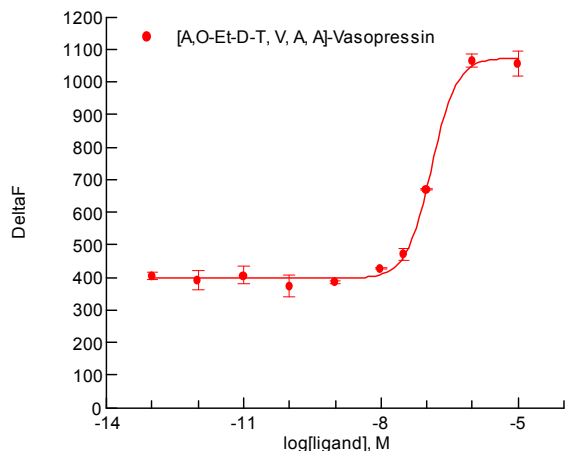
Typical Product Data



Agonist	EC ₅₀ (M)
(Arg ⁸)-Vasopressin	8.9 x 10 ⁻¹²
(deamino-Cys ¹ , Val ⁴ , D-Arg ⁸)-Vasopressin	2.0 x 10 ⁻¹²
Oxytocin	1.0 x 10 ⁻⁹

Figure 1: Agonist Response in TR-FRET cAMP assay

An agonist dose-response experiment was performed in 384-well format using 1 000 cells/well. Reader: RUBYstar. Data from a representative experiment are shown. The Z'-factor was calculated for (Arg⁸)-Vasopressin with at least 16 background and 16 maximal signal points (Z' = 0.80).



Antagonist	IC ₅₀ (M)
[Adamantaneacetyl ¹ , O-Et-D-Tyr ² , Val ⁴ , Abu ⁶ , Arg ^{8,9}]-Vasopressin	1.3 x 10 ⁻⁷

Figure 2: Antagonist Response in TR-FRET cAMP assay

An antagonist dose-response experiment was performed in 384-well format using 1 000 cells/well and 0.03 nM (Arg⁸)-Vasopressin (reference agonist). Reader: RUBYstar. Data from a representative experiment are shown.

Table 1. References of compounds used for functional characterization

Name	Provider	Cat n°	Working Stock Solution
(Arg ⁸)-Vasopressin	Bachem	H-1780	1 mM in water
(deamino-Cys ¹ , Val ⁴ , D-Arg ⁸)-Vasopressin	Sigma	V-2013	1 mM in water
Oxytocin	Bachem	H-2510	10 mM in water
[Adamantaneacetyl ¹ , O-Et-D-Tyr ² , Val ⁴ , Abu ⁶ , Arg ^{8,9}]-Vasopressin	Sigma	V-2381	10 mM in water

LANCE[®] cAMP Assays

LANCE[®] Ultra cAMP - please refer to the user manual included with the LANCE[®] Ultra cAMP kits:

TRF0262 – 1 000 Assay points

TRF0263 – 10 000 Assay points

TRF0264 – 50 000 Assay points

LANCE[®] cAMP - please refer to the user manual included with the LANCE[®] cAMP kits:

AD0262 – 500 Assay points

AD0262E – 1 000 Assay points

AD0263 – 10 000 Assay points

AD0264 – 50 000 Assay points

Suggested Materials and Instrumentation

Please visit our website

www.perkinelmer.com/CellLines

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PerkinElmer, Inc.
940 Winter Street
Waltham, MA 02451 USA
P: (800) 762-4000 or
(+1) 203-925-4602
www.perkinelmer.com



For a complete listing of our global offices, visit www.perkinelmer.com/ContactUs

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