



Mouse Oxytocin Receptor Stable Cell Line

Catalog Number: A678

SPECIFICATIONS:

Synonyms: OTR

Host cell: CHO-K1

Expressed gene: Amino acid sequence corresponds exactly to Genbank Accession Number NM_001081147; no expressed tags.

Mycoplasma Status: Negative (MycoAlert Kit)

Stability: 8 passages (4 weeks of continuous culture)

Packaging: Cryopreserved cells, 6 million cells per vial.

Propagation media: Ham's F12, 10% FBS, 0.4 mg/mL G418

Storage Recommendation: Liquid nitrogen

BACKGROUND: Oxytocin receptors are expressed in uterus and in mammary glands where they mediate important functions in parturition such as contraction of the uterine myometrium during labor and milk letdown. In addition, oxytocin receptors are expressed in a variety of other peripheral tissues and in brain where oxytocin mediates a variety of functions.

REPRESENTATIVE DATA:

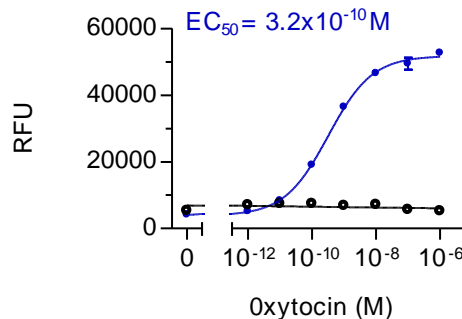


Figure 1. Intracellular calcium response from CHO-K1 cells stably expressing mouse oxytocin receptors (blue) or untransfected control CHO-K1 cells (black). Cells were loaded with Fluo-4NW then stimulated with the indicated concentrations of oxytocin. Calcium responses were recorded on a FlexStation plate reader. Data represent the average \pm standard deviation of triplicate determinations.

REFERENCES:

Gould, B.R. and Zingg, H.H. (2003) Mapping oxytocin receptor gene expression in the mouse brain and mammary gland using an oxytocin receptor-LaxZ reporter mouse. *Neuroscience* 122: 155-167.

Kubota, Y., et al. (1996) Structure and expression of the mouse oxytocin receptor gene. *Mol Cell. Endocrinol.* 124: 25-32

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