

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### mPR $\alpha$ (K346) Peptide

Cat No.: BS2813P

#### Background

The steroid progesterone induces the resumption of maturation in oocytes via a nongenomic pathway through binding to a novel, membrane progesterin receptor (mPR). This pathway inhibits adenylyl cyclase and reduces intracellular cAMP, and also activates mitogen-activated protein kinase to effect signal transduction pathways. Three distinct groups, designated  $\alpha$ ,  $\beta$  and  $\gamma$ , comprise this gene family. mPR $\alpha$ , also designated progesterin and adipoQ receptor family member VII (PAQR7), consists of an extracellular N-terminus, an intracellular C-terminus, and seven transmembrane domains. It is expressed in ovary, testis, placenta, uterus and bladder. mPR $\beta$ , also designated progesterin and adipoQ receptor family member VIII (PAQR8), consists of eight putative transmembrane regions and an intracellular N-terminus that contains a leucine-rich motif. It is a 354 amino acid protein with a molecular mass of about 40 kDa and is expressed in brain and spinal cord. Both mPR $\alpha$  and mPR $\beta$  may be G protein-coupled receptors and may be involved in oocyte maturation.

#### Swiss-Prot

Q86WK9

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS2813 mPR $\alpha$  (K346) pAb.

#### Purification & Purity

Synthetic peptide mPR $\alpha$  (K346). (Note: the amino acid sequence is proprietary). The purity is > 98%.

#### Product

1 mg/ml in DI water.

#### Storage & Stability

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

#### Research Use

For research use only, not for use in diagnostic procedure.

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