

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### MC4-R (E315) Peptide

Cat No.: BS2811P

#### Background

MC4 receptor is the fourth member of the five known melanocortin receptors (MCRs) belonging to the rhodopsin-like family of G protein-coupled receptors (GPCRs). These five MCRs form a unique family of GPCRs, marked by their unusually short coding sequence and the absence of highly conserved amino acid residues or motifs common to most GPCRs. All MCRs signal through the cyclic adenosine 3', 5'-monophosphate (cAMP) pathway. With the exception of MC2R, all MCRs are activated by both adrenocorticotropin (ACTH) and melanocyte-stimulating hormones (MSHs and mainly alpha-MSH). The MC4R receptor is expressed primarily in the brain, and unlike the other melanocortin receptors, MC4R is not expressed in adrenal cortex or in melanocytes. Genetic studies of mice and humans have established a critical role of MC4 Receptor in appetite regulation. Heterozygous mutations in MC4 Receptor account for 1-6% of severe cases of human obesity.

#### Swiss-Prot

P32245

#### Applications

#### Blocking

#### Specificity

This peptide can be used with studies using BS2811 MC4-R (E315) pAb.

#### Purification & Purity

Synthetic peptide MC4-R (E315). (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.

Bioworld Technology, Inc.  
1660 South Highway 100, Suite 500 St. Louis Park, MN  
55416, USA. Email: [info@bioworld.com](mailto:info@bioworld.com)  
Tel: 6123263284 Fax: 6122933841

Bioworld technology, co, Ltd.  
No 9, weidi road Qixia District Nanjing, 210046,  
P, R.China. Email: [info@biogot.com](mailto:info@biogot.com)  
Tel: +86-025-68037686 Fax: +86-025-68035151