

PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



Microcephalin Peptide

Cat No.: BS5900P

Background

Microcephalin (MCPH1, BRCT-repeat inhibitor of TERT expression 1, BRIT1) modulates brain size and has been proliferating under strong positive selection for several thousand years, although the nature of the positive selection is poorly understood. Human Microcephalin contains three BRCA1 C-terminal (BRCT) domains and shares 57% identity with its mouse ortholog, the most conserved regions being BRCT domains where there is 80% identity. Predominant expression of human Microcephalin is observed in fetal brain, liver and kidney tissues and is expressed during neurogenesis in mice. Microcephalin displays significantly higher rates of protein evolution in primates than in rodents; this trend is most noticeable for the subset of genes associated with nervous system development. Microcephalin has a very young, single nucleotide, polymorphism haplotype associated with modern humans; this gene is presumably still evolving in Homo sapiens. It functions in DNA damage response and regulation of cell cycle checkpoints.

Swiss-Prot

Q8NEM0

Applications

Blocking

Specificity

This peptide can be used with studies using BS5900 Microcephalin pAb.

Purification & Purity

Synthetic peptide Microcephalin. (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.