

PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



IP6K2 (L188) Peptide

Cat No.: BS2759P

Background

The members of the inositol hexakisphosphate kinase family, IP6K1 and IP6K2, have a high affinity and selectivity for inositol hexakisphosphate (InsP6) as a substrate. IP6K1 and IP6K2 (also designated PiUS) convert InsP6 to PP-InsP5. However, neither kinase demonstrates any catalytic activity with other inositol pyrophosphates. The presence of InsP6, which inhibits serine/threonine protein phosphatases, increases the influx of calcium across the plasma membrane and implies that it may mediate the regulation of insulin exocytosis. IP6K1 was purified as a 54 kDa protein in rat brain extracts. By homology, IP6K1 and IP6K2 were characterized in mouse as a 50 kDa and 49 kDa protein, respectively. IP6K1 displays ATP synthase activity by transferring a phosphate from PP-InsP5 to ADP, which suggests a role for the IP6 kinases as high energy phosphate donors.

Swiss-Prot

Q9UHH9

Applications

Blocking

Specificity

This peptide can be used with studies using BS2759 IP6K2 (L188) pAb.

Purification & Purity

Synthetic peptide IP6K2 (L188). (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.