

PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



PLC β 2 Peptide

Cat No.: BS5860P

Background

Phosphoinositide-specific phospholipase C (PLC) plays a crucial role in the initiation of receptor mediated signal transduction through the generation of the two second messengers, inositol 1,4,5-triphosphate and diacylglycerol from phosphatidylinositol 4,5-bisphosphate. There are many mammalian PLC isozymes, including PLC β 1, PLC β 2, PLC β 3, PLC β 4, PLC γ 1, PLC γ 2, PLC δ 1, PLC δ 2 and PLC ϵ . PLC β s are the only PLC isoforms that are regulated by G protein subunits and are activated by a heterotrimeric GTP-binding protein linked to various cell surface receptors. Two alternatively spliced forms (1,181 and 1,166 amino acids) of PLC β 2 are generated in hematopoietic cells that differ in the carboxyl-terminal sequence implicated in interaction of PLC β enzymes with G α q. The pleckstrin homology domain of PLC β 2 is required for its targeting to the membrane and for substrate hydrolysis and its linker region exerts an inhibitory effect on basal PLC β 2 activity. PLC β 2 plays a major role in platelet activation and is mainly expressed in the periphery of the islet and acinar cells in rat pancreas.

Swiss-Prot

Q00722

Applications

Blocking

Specificity

This peptide can be used with studies using BS5860 PLC β 2 pAb.

Purification & Purity

Synthetic peptide PLC β 2. (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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