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## Phosphatidylinositol 4,5-bisphosphate

National Cancer Institute

## Source

National Cancer Institute. <u>Phosphatidylinositol 4,5-bisphosphate</u>. NCI Thesaurus. Code C1192.

A phospholipid that is a component of the plasma membrane with signal transduction inducing activity. Phosphatidylinositol 4,5-bisphosphate (PIP2) is an intermediate that can be converted into either the second messenger signaling molecules, inositol 1,4,5-trisphosphate (IP3) and diacylglycerol (DAG), or phosphatidylinositol (3,4,5)-trisphosphate (PtdIns(3,4,5)P3; PIP3). Both PIP2 and PIP3 can act as docking phospholipids, which recruit signaling proteins to the plasma membrane and promotes the activation of several signaling cascades.

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