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Phosphatidylinositol-4,5-Bisphosphate 3-Kinase

National Cancer Institute

Source

National Cancer Institute. *Phosphatidylinositol-4,5-Bisphosphate 3-Kinase*. NCI Thesaurus. Code C17270.

An enzyme that catalyzes the conversion of phosphatidylinositol to phosphatidylinositol 3-phosphate. This is the first committed step in the biosynthesis of phosphatidylinositol 3,4-bisphosphate and phosphatidylinositol 3,4,5-trisphosphate. This pathway is thought to play a critical role in DNA repair, V(D)J recombination and cell cycle checkpoints. (from LocusLink)