Pioglitazone is a medication belonging to the thiazolidinedione class of drugs that are used as adjuncts to diet, exercise, and other diabetes medications to manage type 2 diabetes mellitus. The thiazolidinedione class of medications exerts its pharmacological effect primarily by promoting insulin sensitivity and the improved uptake of blood glucose. Following entry into fat cell nuclei, pioglitazone selectively binds to the Peroxisome Proliferator-Activated Receptor Gamma (PPARγ). PPARs are ligand-activated transcription factors that are involved in the expression of more than 100 genes, and affect numerous metabolic processes, notably lipid and glucose homeostasis. PPARγ in particular is abundantly expressed in lipid cells (adipocytes), where it plays a central role in lipid production and regulation of lipid metabolism.

SynZeal Research offers all Pioglitazone related impurities which certified COA with all characterization data like IR, Mass, HPLC purity, NMR & TGA report. We also provide CMR, DEPT and detailed structure characterization report as per requirements.

For more information on our products custom synthesis, contact SynZeal today.