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Synthesis of Tetrahydroquinoline linked-TZD Analogs as Novel Activators of PPARγ

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The use of PPARγ (peroxisome proliferator activated receptor γ) activators in the treatment of type 2 diabetes is well established due to their ability to lower blood glucose and insulin levels and omprove insulin sensitivity. Thiazolidinedione analog is one of the potential antidiabetic drug that binds and activates PPARγ selectively. In an effort to develop novel and effective antidiabetic thiazolidindione analogs, synthesis of tetrahydroquinoline and *para*-substituted benzene-linked thiazolidinedione analogs were carried out via coupling reaction of the hydrophobic segments with hydroxybenzylthiazolidinedione.