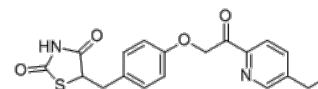


Product Name : MSDC0160
Cat. No. : PC-73019
CAS No. : 146062-49-9
Molecular Formula : C₁₉H₁₈N₂O₄S
Molecular Weight : 370.423
Target : PPAR
Solubility : 10 mM in DMSO



Biological Activity

MSDC0160 (Mitoglitazone, MSDC-0160) is a small molecule targeting **mitochondrial pyruvate carrier (MPC)**, also is an insulin sensitizer with anti-diabetes activities.

MSDC0160 exhibited glucose-lowering effects similar to those of pioglitazone but without the adverse effects associated with PPAR- γ agonists.

MSDC0160 has low affinity for binding and activation of **PPAR γ** and has insulin-sensitizing effects in mouse models of diabetes.

MSDC0160 increased AMPK activity and reduced mTOR activity in human islets.

MSDC-0160 in combination with IGF-1 and 8 mM glucose increased β -cell specific gene expression of insulin, pdx1, nkx6.1, and nkx2.2, and maintained insulin content without altering glucose-stimulated insulin secretion.

MSDC0160 suppresses tumor growth in preclinical models of AR-driven PCa.

References

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Colca JR, et al. *Clin Pharmacol Ther.* 2013 Apr;93(4):352-9.

Rohatgi N, et al. *PLoS One.* 2013 May 1;8(5):e62012.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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