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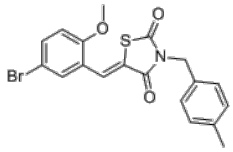
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	GQ-16
Cat. No.	:	PC-49036
CAS No.	:	870554-67-9
Molecular Formula	:	$C_{19}H_{16}BrNO_3S$
Molecular Weight	:	418.305
Target	:	PPAR
Solubility	:	10 mM in DMSO



Biological Activity

GQ-16 is a peroxisome proliferator-activated receptor γ (**PPARγ**) ligand and partial agonist with Ki value of 160 nM, specific for PPARγ with no detectable activity to activate other PPAR subtypes (PPARα or PPARβ/δ) or RXRα.
GQ-16 elicited only approximately one-third of the maximal activation stimulated by rosiglitazone at high concentrations.
GQ-16 is significantly less effective in promoting the interaction between PPARγ and SRC-1 than the TZD troglitazone in in vitro binding studies.
GQ-16 displayed reduced adipogenic potential in both NIH-3T3 and C3H10T1/2 cells, established models of PPARγ-dependent adipogenesis.
GQ-16 improves insulin-signaling components in liver, muscle, and adipose tissue of obese Swiss mice.
GQ-16 improves insulin sensitivity without evoking weight gain and inhibits Cdk5 phosphorylation of PPARγ in vitro.

References

Amato AA, et al. ***J Biol Chem.*** 2012 Aug 10;287(33):28169-79.

Coelho MS, et al. ***PLoS One.*** 2016 May 3;11(5):e0154310.

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E-mail: tech@probechem.com