



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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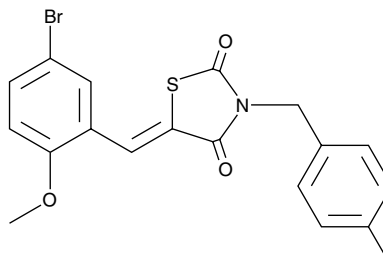
# Product Information



## GQ-16

Item No. 11908

**CAS Registry No.:** 870554-67-9  
**Formal Name:** 5Z-[(5-bromo-2-methoxyphenyl)methylene]-3-[(4-methylphenyl)methyl]-2,4-thiazolidinedione  
**MF:** C<sub>19</sub>H<sub>16</sub>BrNO<sub>3</sub>S  
**FW:** 418.3  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 213, 308, 359 nm



### Laboratory Procedures

For long term storage, we suggest that GQ-16 be stored as supplied at -20°C. It should be stable for at least two years.

GQ-16 is supplied as a crystalline solid. A stock solution may be made by dissolving the GQ-16 in the solvent of choice. GQ-16 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of GQ-16 in these solvents is approximately 0.33 and 5 mg/ml, respectively.

GQ-16 is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Full activation of peroxisome proliferator-activated receptor  $\gamma$  (PPAR $\gamma$ ), *e.g.*, using thiazolidinediones, effectively treats insulin resistance and type 2 diabetes but also commonly promotes weight gain, hyperphagia, and edema.<sup>1</sup> GQ-16 is a partial agonist for PPAR $\gamma$  (K<sub>i</sub> = 160 nM) which induces adipogenesis significantly less than the full activator rosiglitazone.<sup>1</sup> Like rosiglitazone, GQ-16 reverses high fat diet-mediated impairments in insulin signaling.<sup>1</sup> However, GQ-16 does not induce weight gain, hyperphagia, or edema. GQ-16 does not activate PPAR $\alpha$ , PPAR $\beta/\delta$ , or RXR $\alpha$ .<sup>1</sup>

### Reference

1. Amato, A.A., Rajagopalan, S., Lin, J.Z., *et al.* GQ-16, a novel PPAR $\gamma$  ligand, promotes insulin sensitization without weight gain. *J. Biol. Chem.* [In press] 1-20 (2012).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/11908](http://www.caymanchem.com/catalog/11908)

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**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

#### MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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