



# SZABO SCANDIC

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## Produktinformation



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Laborgeräte & Service

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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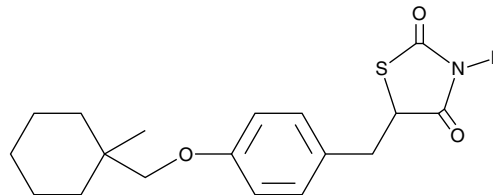
# Product Information



## Ciglitazone

Item No. 71730

**CAS Registry No.:** 74772-77-3  
**Formal Name:** 5-[[4-[(1-methylcyclohexyl)methoxy]phenyl]methyl]-2,4-thiazolidinedione  
**Synonym:** ADD 3878; U-63287  
**MF:** C<sub>18</sub>H<sub>23</sub>NO<sub>3</sub>S  
**FW:** 333.4  
**Purity:** ≥98%  
**Stability:** ≥1 year at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 228, 279, 284 nm



### Laboratory Procedures

Ciglitazone is an antidiabetic drug of the thiazolidinedione structural class. For long term storage, we suggest that ciglitazone be stored as supplied at -20°C. It should be stable for at least one year.

Ciglitazone is supplied as a crystalline solid. A stock solution may be made by dissolving the ciglitazone in an organic solvent purged with an inert gas. Ciglitazone is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide is approximately 16 mg/ml.

Ciglitazone is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, ciglitazone should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Ciglitazone has a solubility of approximately 400 µg/ml in a 1:4 solution of DMSO:PBS (pH 7.2) using this method. Store aqueous solutions of ciglitazone on ice and use within 12 hours of preparation. We do not recommend storing the aqueous solution for more than one day.

Ciglitazone is a potent and selective PPAR $\gamma$  ligand. It binds to the PPAR $\gamma$  ligand-binding domain with an EC<sub>50</sub> value of 3.0 µM.<sup>1</sup> Ciglitazone is active *in vivo* an anti-hyperglycemic agent in the *ob/ob* mouse model.<sup>1</sup>

### Reference

1. Willson, T.M., Cobb, J.E., Cowan, D.J., *et al.* The structure-activity relationship between peroxisome proliferator-activated receptor  $\gamma$  agonism and the antihyperglycemic activity of thiazolidinediones. *J. Med. Chem.* **39**, 665-668 (1996).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/71730](http://www.caymanchem.com/catalog/71730)

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

#### SAFETY DATA

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