



# 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

### SZABO-SCANDIC HandelsgmbH

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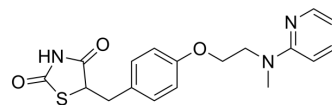
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## Rosiglitazone (Standard)

<b>Cat. No.:</b>	HY-17386R
<b>CAS No.:</b>	122320-73-4
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>19</sub> N <sub>3</sub> O <sub>3</sub> S
<b>Molecular Weight:</b>	357.43
<b>Target:</b>	TRP Channel; Autophagy; Apoptosis; Ferroptosis; PPAR
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling; Autophagy; Apoptosis; Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Rosiglitazone (Standard) is the analytical standard of Rosiglitazone. This product is intended for research and analytical applications. Rosiglitazone (BRL 49653) is an orally active selective PPAR $\gamma$ agonist (EC <sub>50</sub> : 60 nM, K <sub>d</sub> : 40 nM). Rosiglitazone is an TRPC5 activator (EC <sub>50</sub> : 30 $\mu$ M) and TRPM3 inhibitor. Rosiglitazone can be used in the research of obesity and diabetes, senescence, ovarian cancer <sup>[1][2][4][7]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	EC <sub>50</sub> : 30 nM (PPAR $\gamma$ 1), 100 nM (PPAR $\gamma$ 2) <sup>[1]</sup> , 60 nM (PPAR $\gamma$ ) <sup>[2]</sup> , appr 30 nM (TRPC5) <sup>[4]</sup> Kd: appr 40 nM (PPAR $\gamma$ ) <sup>[1]</sup> IC <sub>50</sub> : appr 22.5 $\mu$ M (TRPM2) <sup>[4]</sup>

### REFERENCES

- [1]. Lehmann JM, et al. An antidiabetic thiazolidinedione is a high affinity ligand for peroxisome proliferator-activated receptor gamma (PPAR gamma). J Biol Chem. 1995 Jun 2;270(22):12953-6.
- [2]. Willson TM, et al. The structure-activity relationship between peroxisome proliferator-activated receptor gamma agonism and the antihyperglycemic activity of thiazolidinediones. J Med Chem. 1996 Feb 2;39(3):665-8.
- [3]. Thouennon E, et al. Rosiglitazone-activated PPAR $\gamma$  induces neurotrophic factor- $\alpha$ 1 transcription contributing to neuroprotection. J Neurochem. 2015 Aug;134(3):463-70.
- [4]. Majeed Y, et al. Rapid and contrasting effects of rosiglitazone on transient receptor potential TRPM3 and TRPC5 channels. Mol Pharmacol. 2011 Jun;79(6):1023-30.
- [5]. Ateyya H, et al. Beneficial effects of rosiglitazone and losartan combination in diabetic rats. Can J Physiol Pharmacol. 2018 Mar;96(3):215-220.
- [6]. Haoshen Feng, et al. Rosiglitazone ameliorated airway inflammation induced by cigarette smoke via inhibiting the M1 macrophage polarization by activating PPAR $\gamma$  and RXR $\alpha$ . Int Immunopharmacol. 2021 Aug;97:107809.
- [7]. Zehua Wang, et al. Rosiglitazone ameliorates senescence and promotes apoptosis in ovarian cancer induced by olaparib. Cancer Chemother Pharmacol. 2020 Feb;85(2):273-284.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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