



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

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- Expressversand

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# Product Information



**SR 2211**

Item No. 11972

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**CAS Registry No.:** 1359164-11-6  
**Formal Name:** 2-fluoro-4'-[[4-(4-pyridinylmethyl)-1-piperazinyl]methyl]- $\alpha,\alpha$ -bis(trifluoromethyl)-[1,1'-biphenyl]-4-methanol

**MF:** C<sub>26</sub>H<sub>24</sub>F<sub>7</sub>N<sub>3</sub>O

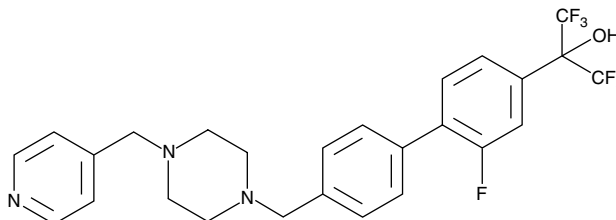
**FW:** 527.5

**Purity:**  $\geq 98\%$

**Stability:**  $\geq 2$  years at  $-20^{\circ}\text{C}$

**Supplied as:** A crystalline solid

**UV/Vis.:**  $\lambda_{\text{max}}$ : 251 nm



## Laboratory Procedures

For long term storage, we suggest that SR 2211 be stored as supplied at  $-20^{\circ}\text{C}$ . It should be stable for at least two years.

SR 2211 is supplied as a crystalline solid. A stock solution may be made by dissolving the SR 2211 in the solvent of choice. SR 2211 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of SR 2211 in ethanol is approximately 10 mg/ml and is approximately 20 mg/ml in DMSO and DMF.

SR 2211 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.

Retinoic acid receptor-related nuclear receptor  $\gamma$  (ROR $\gamma$ ) plays a central role in T cell differentiation, particularly in the differentiation of pro-inflammatory T<sub>H</sub>17 cells, which are implicated in autoimmune diseases like multiple sclerosis and rheumatoid arthritis.<sup>1,2</sup> SR 2211 selectively binds ROR $\gamma$  ( $K_i = 105$  nM), acting as an inverse agonist of constitutive *in vitro* ROR $\gamma$  activity ( $\text{IC}_{50} = 320$  nM).<sup>3</sup> It has minimal effects on ROR $\alpha$ , LXR $\alpha$ , and FXR activities. SR 2211 significantly inhibits gene expression of IL-17 and IL-23 receptor in activated EL-4 mouse T lymphocytes when given at 5  $\mu\text{M}$ .<sup>3</sup>

## References

1. Ivanov, I.I., McKenzie, B.S., Zhou, L., *et al.* The orphan nuclear receptor ROR $\gamma$  directs the differentiation program of proinflammatory IL-17<sup>+</sup> T helper cells. *Cell* **126**, 1121-1133 (2006).
2. Solt, L.A., Kumar, N., Nuhant, P., *et al.* Suppression of T<sub>H</sub>17 differentiation and autoimmunity by a synthetic ROR ligand. *Nat. Lett.* **472(7344)**, 491-4 (2011).
3. Kumar, N., Lyda, B., Chang, M.R., *et al.* Identification of SR2211: A potent synthetic ROR $\gamma$ -selective modulator. *ACS Chem. Biol.* **7**, 672-677 (2012).

## Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/11972](http://www.caymanchem.com/catalog/11972)

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

### 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 Safety Data Sheet, which has been sent via email to your institution.

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Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery.

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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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