

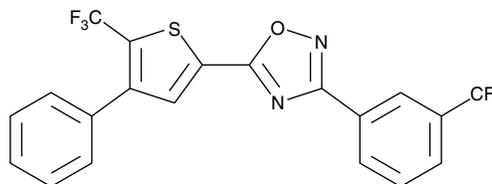
# Product Information



**SEW2871**

Item No. 10006440

**CAS Registry No.:** 256414-75-2  
**Formal Name:** 5-[4-phenyl-5-(trifluoromethyl)-2-thienyl]-3-[3-(trifluoromethyl)phenyl]-1,2,4-oxadiazole  
**MF:** C<sub>20</sub>H<sub>10</sub>F<sub>6</sub>N<sub>2</sub>OS  
**FW:** 440.4  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 242, 273 nm



## Laboratory Procedures

For long term storage, we suggest that SEW2871 be stored as supplied at -20°C. It should be stable for at least two years.

SEW2871 is supplied as a crystalline solid. A stock solution may be made by dissolving the SEW2871 in an organic solvent purged with an inert gas. SEW2871 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of SEW2871 in these solvents is 5, 2, and 30 mg/ml, respectively.

SEW2871 is sparingly soluble in aqueous buffers. Therefore, further dilutions of the organic solvent solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that 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.

Sphingosine-1-phosphate receptor 1 (S1P<sub>1</sub>) is one of five high affinity G protein-coupled S1P receptors which mediate a variety of effects including lymphocyte recirculation in the blood.<sup>1</sup> Non-selective S1P receptor agonists, such as FTY720, produce clinical immunosuppression useful for preventing transplant rejection and treating autoimmune diseases. However, they also cause bradycardia by activating S1P<sub>3</sub>, the receptor responsible for regulation of heart rate.<sup>2</sup> SEW2871 is a selective S1P<sub>1</sub> receptor agonist in both human and mouse that is not active at the S1P<sub>2-5</sub> receptors. SEW2871, therefore, suppresses the immune response by decreasing the number of lymphocytes circulating in blood without causing bradycardia.<sup>2</sup>

## References

1. Kluk, M.J. and Hla, T. Signaling of sphingosine-1-phosphate *via* the S1P/EDG-family of G-protein-coupled receptors. *Biochim. Biophys. Acta* **1582**, 72-80 (2002).
2. Sanna, M.G., Liao, J., Jo, E., *et al.* Sphingosine 1-phosphate (S1P) receptor subtypes SIP<sub>1</sub> and SIP<sub>3</sub>, respectively, regulate lymphocyte recirculation and heart rate. *J. Biol. Chem.* **279**(14), 13839-13848 (2004).

## Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/10006440](http://www.caymanchem.com/catalog/10006440)

**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 under separate cover to the MSD supervisor at your institution.

### WARRANTY AND LIMITATION OF REMEDY

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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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