

# PRODUCT INFORMATION

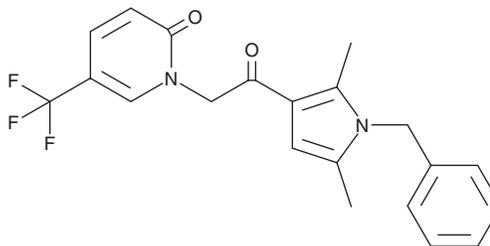


**CYM 5478**

Item No. 29024

**CAS Registry No.:** 870762-83-7  
**Formal Name:** 1-[2-[2,5-dimethyl-1-(phenylmethyl)-1H-pyrrol-3-yl]-2-oxoethyl]-5-(trifluoromethyl)-2(1H)-pyridinone

**MF:** C<sub>21</sub>H<sub>19</sub>F<sub>3</sub>N<sub>2</sub>O<sub>2</sub>  
**FW:** 388.4  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 297 nm  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

## Laboratory Procedures

CYM 5478 is supplied as a crystalline solid. A stock solution may be made by dissolving the CYM 5478 in the solvent of choice, which should be purged with an inert gas. CYM 5478 is soluble in the organic solvent DMSO.

## Description

CYM 5478 is a sphingosine-1-phosphate receptor 2 (S1P<sub>2</sub>) agonist (EC<sub>50</sub> = 0.78 μM in a reporter assay).<sup>1</sup> It is selective for S1P<sub>2</sub> over S1P<sub>1</sub> and S1P<sub>3-5</sub> in a TGFα-shedding assay (EC<sub>50</sub>s = 119, 1,690, 1,950, >10,000, and >10,000 nM, respectively). CYM 5478 (0.1-10 μM) reduces serum starvation-induced decreases in C6 rat glioma cell viability. It also reduces accumulation of reactive oxygen species (ROS) and apoptosis induced by cisplatin (Item No. 13119) in C6 cells when used at a concentration of 10 μM.

## Reference

1. Chen, Y.L., Obach, R.S., Braselton, J., *et al.* 2-Aryloxy-4-alkylaminopyridines: Discovery of novel corticotropin-releasing factor 1 antagonists. *J. Med. Chem.* **51(5)**, 1385-1392 (2008).

### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

### WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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