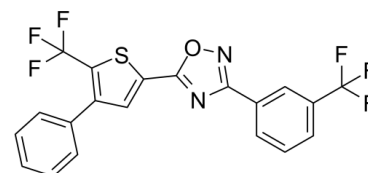


## Data Sheet

<b>Product Name:</b>	SEW2871
<b>Cat. No.:</b>	CS-W009663
<b>CAS No.:</b>	256414-75-2
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>10</sub> F <sub>6</sub> N <sub>2</sub> OS
<b>Molecular Weight:</b>	440.36
<b>Target:</b>	LPL Receptor
<b>Pathway:</b>	GPCR/G Protein
<b>Solubility:</b>	DMSO : 25 mg/mL (56.77 mM; Need ultrasonic)



### BIOLOGICAL ACTIVITY:

SEW2871 is a highly selective, orally active **S1P1** agonist with an **EC<sub>50</sub>** of 13.8 nM. SEW2871 activates ERK, Akt, and Rac signaling pathways and induces S1P1 internalization and recycling. SEW2871 reduces lymphocyte numbers in blood and has therapeutic implications in contexts of diabetes, Alzheimer's disease, liver fibrosis, and inflammatory responses<sup>[1][2]</sup>. IC50 & Target: EC50: 13.8 nM (S1P1)<sup>[2]</sup>

### References:

- [1]. Park SJ, et al. Sphingosine 1-Phosphate Receptor Modulators and Drug Discovery. *Biomol Ther (Seoul)*. 2017 Jan 1;25(1):80-90.
- [2]. Jo E, et al. S1P1-selective in vivo-active agonists from high-throughput screening: off-the-shelf chemical probes of receptor interactions, signaling, and fate. *Chem Biol*. 2005 Jun;12(6):703-15.
- [3]. Dong J, et al. Oral treatment with SEW2871, a sphingosine-1-phosphate type 1 receptor agonist, ameliorates experimental colitis in interleukin-10 gene deficient mice. *Clin Exp Immunol*. 2014 Jul;177(1):94-101.

### CAIndexNames:

1,2,4-Oxadiazole, 5-[4-phenyl-5-(trifluoromethyl)-2-thienyl]-3-[3-(trifluoromethyl)phenyl]-

### SMILES:

FC(C1=CC(C2=NOC(C3=CC(C4=CC=CC=C4)=C(C(F)(F)F)S3)=N2)=CC=C1)(F)F

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

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