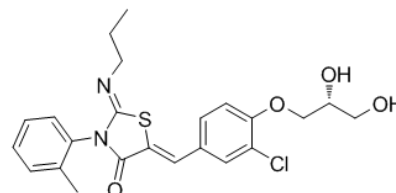


**Product Name** : Ponesimod  
**Cat. No.** : PC-42656  
**CAS No.** : 854107-55-4  
**Molecular Formula** : C<sub>23</sub>H<sub>25</sub>ClN<sub>2</sub>O<sub>4</sub>S  
**Molecular Weight** : 460.9736  
**Target** : Lysophospholipid Receptor  
**Solubility** : 10 mM in DMSO



## Biological Activity

Ponesimod (ACT-128800) is a potent, selective, orally active **S1P1** receptor agonist with EC<sub>50</sub> of 9.1 nM. Ponesimod (ACT-128800) shows weak activity on S1P3 (EC<sub>50</sub>=123 nM). Ponesimod (ACT-128800) activates S1P1-mediated signal transduction with high potency (EC<sub>50</sub> of 5.7 nM). Ponesimod (ACT-128800) causes maximal reduction of circulating lymphocytes at a dose of 3 mg/kg.

## References

- Bolli MH, et al. *J Med Chem.* 2010 May 27;53(10):4198-211.  
Piali L, et al. *J Pharmacol Exp Ther.* 2011 May;337(2):547-56.  
Sobel K, et al. *J Biol Chem.* 2013 May 24;288(21):14839-51.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com