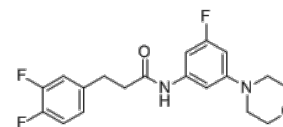


**Product Name** : GPR183 antagonist SAE-14  
**Cat. No.** : PC-72117  
**CAS No.** : 1241280-25-0  
**Molecular Formula** : C<sub>19</sub>H<sub>19</sub>F<sub>3</sub>N<sub>2</sub>O<sub>2</sub>  
**Molecular Weight** : 364.368  
**Target** : GPR183 (EBI2)  
**Solubility** : 10 mM in DMSO



### Biological Activity

GPR183 antagonist SAE-14 is a potent, selective **GPR183** antagonist with IC<sub>50</sub> of 28.5 nM, inhibits GPR183-dependent 7 $\alpha$ ,25-dihydroxycholesterol-induced calcium signaling in HL-60 cells.

GPR183 antagonist SAE-14 inhibits calcium mobilization induced by 7 $\alpha$ ,25-OHC (EC<sub>80</sub> 209 nM).

GPR183 antagonist SAE-14 reversed CCI-induced mechanical allodynia in a time-dependent manner when administered in vivo to mice.

7 $\alpha$ ,25-dihydroxycholesterol induced allodynia in mice, SAE-14 blocked the effects of 7 $\alpha$ ,25-OHC in a dose-dependent manner.

### References

Kathryn Braden, et al. *J Pharmacol Exp Ther.* 2020 Nov;375(2):367-375.

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

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