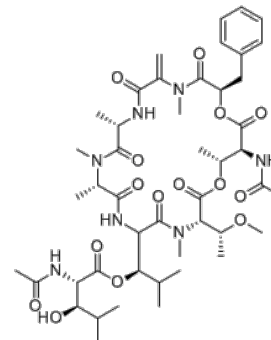


**Product Name** : YM-254890  
**Cat. No.** : PC-62046  
**CAS No.** : 568580-02-9  
**Molecular Formula** : C<sub>46</sub>H<sub>69</sub>N<sub>7</sub>O<sub>5</sub>  
**Molecular Weight** : 960.08  
**Target** : P2Y Receptor  
**Solubility** : 10 mM in DMSO



## Biological Activity

YM 254890 is a selective **Gq signaling** inhibitor that strongly inhibits intracellular calcium ion mobilization and serum response element (SRE)-mediated transcription stimulated by several receptors coupled to Gq, but not those coupled to Gi, Gs, or G15.

YM 254890 also exhibits antithrombotic and thrombolytic effects in an electrically induced carotid artery thrombosis model in rats.

YM 254890 inhibits ADP-induced platelet aggregation in human platelet-rich plasma with an IC<sub>50</sub> of <0.6 μM by blocking the P2Y<sub>1</sub> receptor-signal transduction pathway.

## References

Nishimura A, et al. *Proc Natl Acad Sci U S A*. 2010 Aug 3;107(31):13666-71.

Takasaki J, et al. *J Biol Chem*. 2004 Nov 12;279(46):47438-45.

Taniguchi M, et al. *J Antibiot (Tokyo)*. 2003 Apr; 56(4):358-63.

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

E-mail: tech@probechem.com