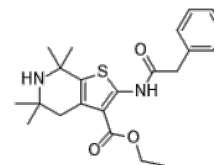


Product Name : CCF0054500
Cat. No. : PC-26506
CAS No. : 887902-01-4
Molecular Formula : C₂₂H₂₈N₂O₃S
Molecular Weight : 400.54
Target : Other Targets
Solubility : 10 mM in DMSO



CAS: 887902-01-4

Biological Activity

CCF0054500 is a specific small molecule **agonist** of orphan GPCR **OR2L13**, inhibits platelet aggregation in platelet-rich plasma (PRP) with EC₅₀ of 14 uM.

CCF0054500 broadly inhibits platelet reactivity through PAR1, P2Y12, GPVI (glycoprotein VI), and thromboxane receptors, as well as GPIIb/IIIa, uniquely inhibiting both biochemical and biomechanical activation of the platelet. phosphorylated platelet HSP27 (heat shock protein 27), disrupting the actin cytoskeleton and reducing clot retraction.

CCF0054500 reorganizes the platelet actin cytoskeleton by promoting F-actin depolymerization without diminishing the cytoskeleton globular actin pool, thereby modulating thrombosis-related platelet shape change while preserving physiologic hemostatic function.

References

Anu Aggarwal, et al. **Circulation**. 2026 Apr 7. doi: 10.1161/CIRCULATIONAHA.

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

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