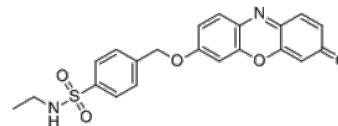


Product Name : WRG-28
Cat. No. : PC-35521
CAS No. : 1913291-02-7
Molecular Formula : C₂₁H₁₈N₂O₅S
Molecular Weight : 410.444
Target : Discoidin Domain Receptor (DDR)
Solubility : 10 mM in DMSO



Biological Activity

WRG-28 (DDR2 inhibitor WRG-28) is a potent, selective, allosteric inhibitor of **discoidin domain receptor 2 (DDR2)** with binding IC₅₀ of 230 nM.

WRG-28 blunts collagen I-mediated DDR2 tyrosine phosphorylation, ERK activation, and SNAIL1 protein stabilization (IC₅₀=286 nM) in HEK293 cells expressing DDR2, without effect on normal mammary epithelial MCF10A cells.

WRG-28 displays no activity against collagen I-induced tyrosine phosphorylation of the related DDR1 RTK in HEK293 cells.

WRG-28 inhibits DDR2-collagen interaction in an allosteric manner, inhibits tumor invasion and migration, as well as tumor-supporting roles of the stroma, and inhibits metastatic breast tumor cell colonization in the lungs.

References

Grither WR, et al. *Proc Natl Acad Sci U S A*. 2018 Jul 30. pii: 201805020.

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

E-mail: tech@probechem.com