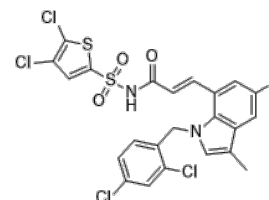


Product Name : DG041
Cat. No. : PC-27720
CAS No. : 861238-35-9
Molecular Formula : C₂₃H₁₅Cl₄FN₂O₃S₂
Molecular Weight : 592.30
Target : Prostaglandin Receptor
Solubility : 10 mM in DMSO



Biological Activity

DG-041 (DG041) is a potent and selective prostanoid **EP3 receptor antagonist** with IC₅₀ of 4.6 nM and 8.1 nM in binding and FLIPR assay, respectively.

DG-041 antagonized the effects of sulprostone on platelet function.

DG-041 potentiated the protective effects of PGE(2) on platelet aggregation by inhibiting the pro-aggregatory effect via EP3 stimulation.

DG041 (30 mg/kg) enhanced bladder capacity, inhibited the responses to GR63799X supporting the in vivo activity.

References

Singh J, et al. *J Med Chem*. 2010 Jan 14;53(1):18-36.

Heptinstall S, et al. *Platelets*. 2008 Dec;19(8):605-13.

Jugus MJ, et al. *Br J Pharmacol*. 2009 Sep;158(1):372-81.

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

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