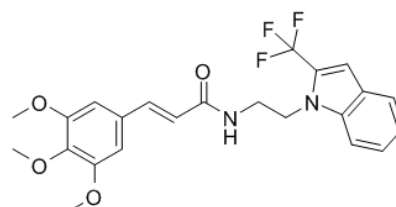


Product Name : TG6-10-1
Cat. No. : PC-45111
CAS No. : 1415716-58-3
Molecular Formula : C₂₃H₂₃F₃N₂O₄
Molecular Weight : 448.4349
Target : Prostaglandin Receptor
Solubility : 10 mM in DMSO



Biological Activity

TG6-10-1 is a potent and selective antagonist of prostaglandin E2 receptor subtype **EP2** with Kb of 17.8 nM. TG6-10-1 displays >300-fold selectivity over EP3, EP4, and IP receptors, 100-fold selectivity over EP1, 25-fold selectivity over FP and TP, and 10-fold selectivity over DP1 receptors. TG6-10-1 completely recapitulates the effects of conditional ablation of COX-2 from principal forebrain neurons, accelerates recovery from weight loss, reduces brain inflammation, prevention of blood-brain barrier opening, and neuroprotection in the hippocampus, without modifying seizures acutely in the mouse pilocarpine model of SE.

References

- Jiang J, et al. *Proc Natl Acad Sci U S A*. 2013 Feb 26;110(9):3591-6.
 Rojas A, et al. *Neuropharmacology*. 2015 Jun;93:15-27.
 Rojas A, et al. *Neuropharmacology*. 2016 Nov;110(Pt A):419-30.

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

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