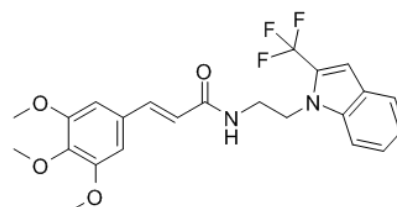


**Product Name** : TG6-10-1  
**Cat. No.** : PC-45111  
**CAS No.** : 1415716-58-3  
**Molecular Formula** : C<sub>23</sub>H<sub>23</sub>F<sub>3</sub>N<sub>2</sub>O<sub>4</sub>  
**Molecular Weight** : 448.4349  
**Target** : Prostaglandin Receptor  
**Solubility** : 10 mM in DMSO



## Biological Activity

A potent and selective antagonist of prostaglandin E2 receptor subtype EP2 with K<sub>b</sub> of 17.8 nM; 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; 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

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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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