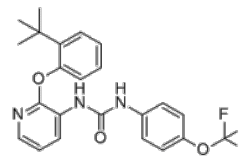


Product Name : BPTU
Cat. No. : PC-61413
CAS No. : 870544-59-5
Molecular Formula : C₂₃H₂₂F₃N₃O₃
Molecular Weight : 445.43
Target : P2Y Receptor
Solubility : 10 mM in DMSO



Biological Activity

BPTU (BMS-646786) is a potent, highly selective and allosteric antagonist of **P2Y1** receptor with K_i of 6 nM for hP2Y1. BPTU shows no significant affinity for hP2Y2/6/11/12/14 (K_i > 5 μM).

BPTU inhibits purinergic inhibitory junction potentials and inhibition of spontaneous motility induced by electrical field stimulation in the colon of rats (EC₅₀ = 0.3 μM) and mice (EC₅₀ = 0.06 μM).

BPTU also blocks nicotine induced relaxation, has reasonable plasma exposure, clearance and half-life with moderate oral bioavailability.

References

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Mañé N, et al. *Neuropharmacology*. 2016 Nov;110(Pt A):376-385.

Zhang D, et al. *Nature*. 2015 Apr 16;520(7547):317-21.

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

E-mail: tech@probechem.com