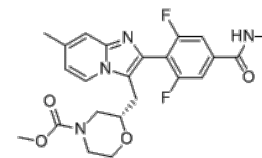


Product Name : BLU-5937
Cat. No. : PC-20741
CAS No. : 1621164-74-6
Molecular Formula : C₂₃H₂₄F₂N₄O₄
Molecular Weight : 458.47
Target : P2X Receptor
Solubility : 10 mM in DMSO



CAS: 1621164-74-6

Biological Activity

BLU-5937 (Camlipixant, BLU5937) is a potent, selective and non-competitive **P2X3 homotrimeric receptor** antagonist with IC₅₀ of 25 and 92 nM for human and rat P2X3 receptors, respectively.

BLU-5937 displays 1500-fold selectivity for human P2X3 over human P2X2/3.

BLU-5937 (500 nM) effectively inhibits P2X3-mediated sensitization of rat DRG neurons, blocks ATP-mediated neuron sensitization by inhibiting P2X3 homotrimeric receptors.

BLU-5937 (0.3-30 mg/kg, orally) reduces histamine- and ATP- induced cough hypersensitivity in guinea pigs.

BLU-5937 significantly reduced ATP- and histamine-induced enhancement in number of citric acid-induced coughs in the guinea pig.

References

Garceau D, et al. *Pulm Pharmacol Ther.* 2019 Jun;56:56-62.

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

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