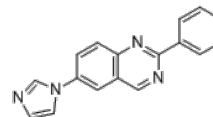


Product Name : CR4056
Cat. No. : PC-35650
CAS No. : 1004997-71-0
Molecular Formula : C₁₇H₁₂N₄
Molecular Weight : 272.311
Target : Imidazoline Receptor
Solubility : 10 mM in DMSO



Biological Activity

CR4056 (CR 4056, CR-4056) is a novel, orally active **imidazoline-2 receptor (I2R)** ligand/agonist with binding IC₅₀ of 596 nM, also selectively inhibits the enzymatic activity of MAO-A with IC₅₀ of 202.7 nM.

CR4056 increases norepinephrine (NE) tissue levels both in the rat cerebral cortex and lumbar spinal cord, shows ED₅₀ of 5.8 mg/kg in CFA rat model of inflammatory pain.

CR4056 shows high effectivity against bortezomib-induced painful neuropathy in rats.

References

Ferrari F, et al. *J Pain Res.* 2011;4:111-25.

Thorn DA, et al. *Br J Pharmacol.* 2012 Jul;166(6):1936-45.

Meregalli C, et al. *J Pain Res.* 2012;5:151-67.

Lanza M, et al. *Br J Pharmacol.* 2014 Aug;171(15):3693-701.

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

E-mail: tech@probechem.com