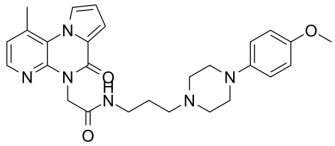
ML 190

Cat. No.:	HY-107749
CAS No.:	1355244-02-8
Molecular Formula:	$C_{27}H_{32}N_6O_3$
Molecular Weight:	488.58
Target:	Opioid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ML 190 is a selective κ opioid receptor (KOR) antagonist with an IC_{50} of 120 nM and an EC_{50} of 129 nM, respectively[1].
IC_{50} & Target	IC_{50}: 120 nM (KOR)[1] EC_{50}: 129 nM (KOR)[1]
In Vitro	ML 190 exhibits plasma protein binding of 93.96% (1 μM), 88.54% (10 μM) in human and 88.46% (1 μM), 80.07% (10 μM) in mouse, respectively; plasma remaining percents of 100% at 3 hours in both human and mouse; hepatic microsome remaining percents of 22.13% and 7.34% at 1 hour in human and mouse, respectively; and hepatic toxicity LC_{50} over 50 μM [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Frankowski KJ, et al. Discovery of Small Molecule Kappa Opioid Receptor Agonist and Antagonist Chemotypes through a HTS and Hit Refinement Strategy. ACS Chem Neurosci. 2012;3(3):221-236.

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