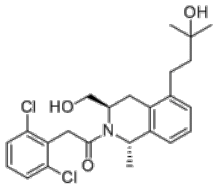
ProbeChem®
Expedite Your Scientific Research

WWW.PROBECHEM.COM

Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	LY3154207
Cat. No.	:	PC-73068
CAS No.	:	1638667-79-4
Molecular Formula	:	$C_{24}H_{29}Cl_2NO_3$
Molecular Weight	:	450.4
Target	:	Dopamine Receptor
Solubility	:	10 mM in DMSO



Biological Activity

LY3154207 (Mevidalen, LY-3154207) is a potent, and subtype selective human **dopamine D1** positive allosteric modulator (PAM) with EC50 of 3.0 nM.
LY3154207 displays exquisite selectivity over the human D5 receptor subtype (EC50>10 uM), and 14 other GPCRs, including D2, β1, β2, and 5HT6 receptors.
Mevidalen enhanced wakefulness (latency to fall asleep) in the hD1 mouse in a dose dependent [3-100 mg/kg, orally (PO)] fashion.
Mevidalen promoted wakefulness in mice after prior sleep deprivation and delayed sleep onset by 5.5- and 15.2-fold compared with vehicle-treated animals.
Mevidalen demonstrated a dose-dependent increase in latency to sleep onset in human clinical investigations.

References

Hao J, et al. ***J Med Chem.*** 2019 Oct 10;62(19):8711-8732.

McCarthy AP, et al. ***J Pharmacol Exp Ther.*** 2022 Mar;380(3):143-152.

E-mail: tech@probechem.com