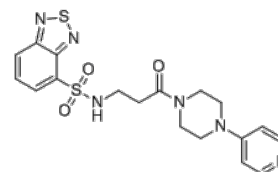


Product Name : VU 0255035
Cat. No. : PC-60736
CAS No. : 1135243-19-4
Molecular Formula : C₁₈H₂₀N₆O₃S₂
Molecular Weight : 432.517
Target : mAChR
Solubility : 10 mM in DMSO



Biological Activity

VU 0255035 is a potent, selective, CNS penetrant and competitive orthosteric antagonist of M1 mAChR with IC₅₀ of 132 nM, >75-fold selectivity over M2-M5.

VU 0255035 inhibits potentiation of NMDA receptor currents by the muscarinic agonist carbachol in hippocampal pyramidal cells, antagonizes PI hydrolysis in rat hippocampal slices induced by the mAChR agonist CCh with IC₅₀ of 2.4 μM. VU 0255035 inhibits pilocarpine-induced seizures and reduces pilocarpine-induced mortality in mice.

References

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Xiang Z, et al. *J Pharmacol Exp Ther*. 2012 Mar;340(3):595-603.
Witkin JM, et al. *J Pharmacol Exp Ther*. 2014 Nov;351(2):448-56.

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

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