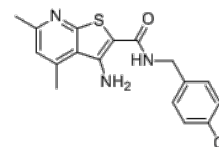


Product Name : VU 10010
Cat. No. : PC-62160
CAS No. : 633283-39-3
Molecular Formula : C₁₇H₁₆ClN₃OS
Molecular Weight : 345.845
Target : mAChR
Solubility : 10 mM in DMSO



Biological Activity

VU 10010 is a selective, allosteric potentiator of **M4 mAChR** (EC₅₀=33 and 0.7 nM for ACh in the absence and presence of VU10010 respectively), has no activity at other mAChR subtypes.

VU 10010 binds to an allosteric site on the receptor increasing affinity for ACh and coupling to G-proteins.

VU 10010 increases carbachol-induced depression of transmission at excitatory but not inhibitory synapses in the hippocampus.

References

Shirey JK, et al. Nat Chem Biol. 2008 Jan;4(1):42-50.

Brady AE, et al. J Pharmacol Exp Ther. 2008 Dec;327(3):941-53.

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

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