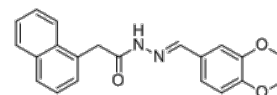


Product Name : TRPM5 inhibitor NDNA
Cat. No. : PC-20367
CAS No. : 936628-69-2
Molecular Formula : C₂₁H₂₀N₂O₃
Molecular Weight : 348.40
Target : TRP Channel
Solubility : 10 mM in DMSO



Biological Activity

TRPM5 inhibitor NDNA is potent and selective **TRPM5** inhibitor, inhibits Ca²⁺- induced TRPM5 currents with IC₅₀ of 2.4 nM. NDNA binds to a region critical for channel gating, stabilizes the ion-conducting pore in an apo-like closed conformation. NDNA inhibits Ca²⁺-induced TRPM5 activation in a non-competitive manner. NDNA enhances insulin release, GLP-1 release, and insulin sensitivity. TPPO dose-dependently inhibited acidic pHe-induced MMP-9 production in B16-BL6 cells (IC₅₀=41 μM), but did not reduce cell viability. NDNA (10 mg/kg. s.c.) significantly reduced spontaneous lung metastasis, without affecting tumor growth, body weight, or CBG, in tumor bearing mice.

References

- Ruan Z, et al. *Nat Struct Mol Biol.* 2021 Jul;28(7):604-613.
Bryant R et al. Patent WO2008097504. Use of a trpm5 inhibitor to regulate insulin and glp-1 release.
Toyonobu Maeda, et al. *Oncotarget.* 2017 Sep 11;8(45):78312-78326.

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

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