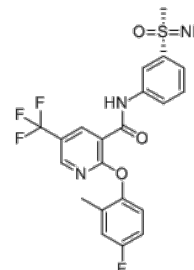


Product Name : LTGO-33
Cat. No. : PC-21678
CAS No. : 2834106-06-6
Molecular Formula : C₂₁H₁₇F₄N₃O₃S
Molecular Weight : 467.44
Target : Sodium Channel
Solubility : 10 mM in DMSO



CAS: 2834106-06-6

Biological Activity

LTGO-33 is a potent, selective inhibitor of voltage-gated sodium channel **NaV1.8** with IC₅₀ of 44 nM (hNaV1.8), 600-fold selectivity against NaV1.1-NaV1.7 and NaV1.9.

LTGO-33 inhibits TTX-R currents in primary DRG neurons from human and cynomolgus monkey but is markedly less effective on DRG neurons from dog and mouse.

LTGO-33 binds to the extracellular cleft of VSDII, stabilizes the deactivated state of VSDII.

LTGO-33 is state-independent with similar potencies against closed and inactivated channels.

LTGO-33 equally inhibits wild-type and multiple NaV1.8 variants associated with human pain disorders.

References

Gilchrist JM, et al. *Mol Pharmacol*. 2024 Jan 9;MOLPHARM-AR-2023-000789.

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

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