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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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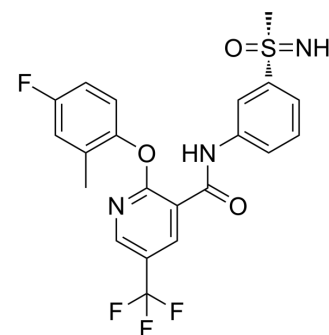
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LTGO-33

Cat. No.:	HY-157802
CAS No.:	2834106-06-6
Molecular Formula:	C ₂₁ H ₁₇ F ₄ N ₃ O ₃ S
Molecular Weight:	467.44
Target:	Sodium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	LTGO-33 is a potent and selective voltage-gated sodium channel NaV1.8 inhibitor. LTGO-33 inhibits NaV1.8 in the nM potency range and exhibits over 600-fold selectivity against human NaV1.1-NaV1.7 and NaV1.9. LTGO-33 exhibits state-independent inhibition with similar potencies on channels in the closed and inactivated conformations. LTGO-33 inhibits native TTX-R NaV1.8 currents in non-human primate and human DRG neurons, where it reduces action potential firing. LTGO-33 can be used for pain disorders research ^[1] .
IC₅₀ & Target	hNa _v 1.8
In Vitro	<p>LTGO-33 exhibits an IC₅₀ of 33 nM from the closed state and 24 nM from an inactivated state^[1].</p> <p>LTGO-33 displays species specificity for primate NaV1.8 over dog and rodent NaV1.8 and inhibits action potential firing in human dorsal root ganglia neurons^[1].</p> <p>LTGO-33 inhibits TTX-R currents in primary DRG neurons from human (male donors: IC₅₀ of 110 nM, 95% CI: 92 to 120 nM, n = 3-15 neurons per concentration; female donors: IC₅₀ of 120 nM, 95% CI: 100 to 140 nM, 4- 6 neurons per concentration) and cynomolgus monkey (IC₅₀ of 100 nM, 95% CI: 71 to 150 nM, n = 6 cells) but is markedly less effective on DRG neurons from dog (IC₅₀ >10 μM, n = 6 cells), rat (IC₅₀ >30 μM, n = 7 cells), and mouse (IC₅₀ >30 μM, n = 8 cells)^[1].</p> <p>LTGO-33 stabilizes the deactivated state of VSDII, effectively keeping the channel closed by preventing movement of VSDII^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Gilchrist JM, et al. Pharmacologic Characterization of LTGO-33, a Selective Small Molecule Inhibitor of the Voltage-Gated Sodium Channel NaV1.8 with a Unique Mechanism of Action. *Mol Pharmacol.* 2024 Feb 15;105(3):233-249.

Caution: Product has not been fully validated for medical applications. For research use only.

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