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Data Sheet

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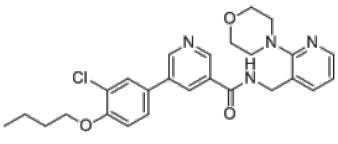
Product Name	:	A-887826
Cat. No.	:	PC-49611
CAS No.	:	1266212-81-0
Molecular Formula	:	$C_{26}H_{29}ClN_4O_3$
Molecular Weight	:	480.99
Target	:	Sodium Channel
Solubility	:	10 mM in DMSO



Biological Activity

A-887826 (A 887826) is a potent and voltage-dependent **Na(v)1.8** sodium channel blocker with IC50 of 11 nM (hNav1.8), potently blocks tetrodotoxin-resistant sodium (TTX-R Na(+)) currents (IC50=8 nM) from small diameter rat DRG neurons. A-887826 is approximately 3 fold less potent to block Na(v)1.2, approximately 10 fold less potent to block tetrodotoxin-sensitive sodium (TTX-S Na(+)) currents and is >30 fold less potent to block Na(V)1.5 channels.
A-887826 effectively suppressed evoked action potential firing when DRG neurons were held at depolarized potentials and reversibly suppressed spontaneous firing in small diameter DRG neurons from complete Freund's adjuvant inflamed rats. A-887826 significantly attenuated tactile allodynia in a rat neuropathic pain model.

References

Zhang XF, et al. ***Neuropharmacology.*** 2010 Sep;59(3):201-7.

Jo S, et al. ***Mol Pharmacol.*** 2023 Jan 12:MOLPHARM-AR-2022-000593.

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