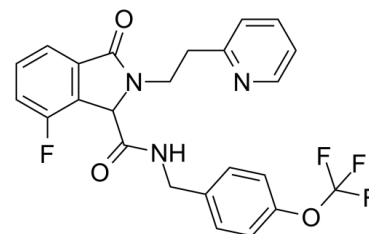


Data Sheet

Product Name:	Sodium Channel inhibitor 1
Cat. No.:	CS-1558
CAS No.:	1198117-23-5
Molecular Formula:	C ₂₄ H ₁₉ F ₄ N ₃ O ₃
Molecular Weight:	473.42
Target:	Sodium Channel
Pathway:	Membrane Transporter/Ion Channel
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

Sodium Channel inhibitor1, one of 3-Oxoisoindoline-1-carboxamides, is a novel and selective voltage-gated sodium channel for pain treatment. IC₅₀ Value: 0.16 uM (Na v1.7, V hold-90mV); 0.41 uM (Na v1.7, V hold-90mV) [1] Target: Na v1.7 Sodium Channel inhibitor1 demonstrated concentration-dependent efficacy in preclinical behavioral pain models.

References:

[1]. Macsari I, et al. 3-Oxoisoindoline-1-carboxamides: potent, state-dependent blockers of voltage-gated sodium channel Na(V)1.7with efficacy in rat pain models. J Med Chem. 2012 Aug 9;55(15):6866-80.

CAIndexNames:

1H-Isoindole-1-carboxamide, 7-fluoro-2,3-dihydro-3-oxo-2-[2-(2-pyridinyl)ethyl]-N-[[4-(trifluoromethoxy)phenyl]methyl]-

SMILES:

O=C(C1N(CCC2=NC=CC=C2)C(C3=C1C(F)=CC=C3)=O)NCC4=CC=C(OC(F)(F)F)C=C4

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

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