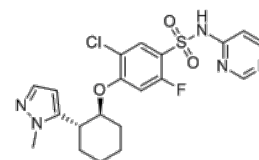


Product Name : DS-1971a
Cat. No. : PC-72189
CAS No. : 1450595-86-4
Molecular Formula : C₂₀H₂₁ClFN₅O₃S
Molecular Weight : 465.928
Target : Sodium Channel
Solubility : 10 mM in DMSO



Biological Activity

DS-1971a (DS1971a) is a highly potent, selective **NaV1.7** inhibitor with IC₅₀ of 22.8 nM (hNaV1.7) and 59.4 nM (mNaV1.7). DS-1971a displays weak inhibitory activity against hNaV1.2 (IC₅₀=1960 nM) and hNaV1.6 (IC₅₀=495 nM), superior selectivity against hNaV1.1 and hNaV1.5 (IC₅₀ values >100 uM). DS-1971a shows a 10-fold higher potency than PF-05089771 using animal models of neuropathic pain.

References

- Shinozuka T, et al. *J Med Chem.* 2020 Sep 24;63(18):10204-10220.
Asano D, et al. *Xenobiotica.* 2021 Sep;51(9):1060-1070.
Asano D, et al. *Drug Metab Dispos.* 2021 Dec 20:DMD-AR-2021-000665.

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

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