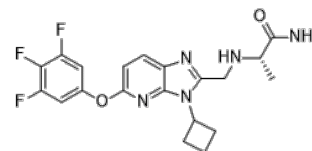


**Product Name** : ANP-230  
**Cat. No.** : PC-22424  
**CAS No.** : 1233231-30-5  
**Molecular Formula** : C<sub>20</sub>H<sub>20</sub>F<sub>3</sub>N<sub>5</sub>O<sub>2</sub>  
**Molecular Weight** : 419.41  
**Target** : Sodium Channel  
**Solubility** : 10 mM in DMSO



## Biological Activity

ANP-230 (DSP-2230) is a selective sodium channel blocker of human **Nav1.7**, **Nav1.8**, and **Nav1.9** with IC<sub>50</sub> of 7.1, 11.4, and 6.7 μM (sodium currents), shows only low inhibitory activity to human cardiac Nav1.5 channel and rat central Nav channels.

ANP-230 shows comparable potency and selectivity when evaluated by manual patch-clamp technique (IC<sub>50</sub> values for Nav1.7, Nav1.8, and Nav1.5 were 9.3, 5.5, and 151.2 μM, respectively).

ANP-230 causes a depolarizing shift of the activation curve for peripheral Nav channels and decelerates the gating kinetics of Nav1.7.

ANP-230 (10, 30 μM) potently reduces neuronal excitability in rat DRG neurons.

## References

Kamei T, et al. *Biochem Biophys Res Commun.* 2024 May 14;721:150126.

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

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