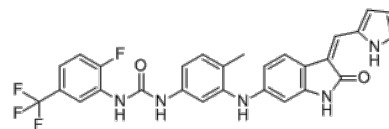


**Product Name** : GNF-5837  
**Cat. No.** : PC-49205  
**CAS No.** : 1033769-28-6  
**Molecular Formula** : C<sub>28</sub>H<sub>21</sub>F<sub>4</sub>N<sub>5</sub>O<sub>2</sub>  
**Molecular Weight** : 535.503  
**Target** : Trk Receptor  
**Solubility** : 10 mM in DMSO



## Biological Activity

GNF-5837 (GNF5837) is a potent, selective, and orally bioavailable pan-**TRK inhibitor** with IC<sub>50</sub> values of 11/9/7 nM against TRKA/B/C, respectively.

GNF-5837 demonstrated potent antiproliferation activity with IC<sub>50</sub> of 42 nM in Ba/F3 cells expressing TRKA and NGF, with no effect in parental Ba/F3 cells whose proliferation is dependent on IL-3.

GNF-5837 potently inhibited cell growth and proliferation of RIE cells expressing TRKA and NGF with IC<sub>50</sub> of 17 nM.

GNF-5837 showed significant selectivity window for TRK over c-Kit and PDGFR in cellular assays (IC<sub>50</sub>>0.5 μM).

GNF-5837 (25-100mg, p.o.) demonstrated 72 and 100% tumor regression at 50 and 100 mg/kg in tumor xenografts derived from RIE cells expressing both TRKA and NGF.

## References

Albaugh P, et al. *ACS Med Chem Lett*. 2012 Jan 1;3(2):140-5.

Kimura S, et al. *Lung Cancer*. 2018 Jun;120:98-107.

Chen Y, et al. *Oncol Rep*. 2019 Nov;42(5):2039-2048.

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

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