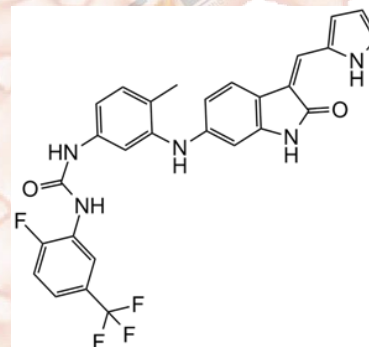


## Product Data Sheet

### GNF-5837

<b>Cat. No.:</b>	A8303
<b>CAS No.:</b>	1033769-28-6
<b>Formula:</b>	C <sub>28</sub> H <sub>21</sub> F <sub>4</sub> N <sub>5</sub> O <sub>2</sub>
<b>M.Wt:</b>	535.49
<b>Synonyms:</b>	
<b>Target:</b>	Tyrosine Kinase
<b>Pathway:</b>	Trk
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

insoluble in EtOH; insoluble in H<sub>2</sub>O; ≥17 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	<b>Concentration</b>			
	<b>1 mM</b>	1.8674 mL	9.3372 mL	18.6745 mL
	<b>5 mM</b>	0.3735 mL	1.8674 mL	3.7349 mL
	<b>10 mM</b>	0.1867 mL	0.9337 mL	1.8674 mL

Please refer to the solubility information to select the appropriate solvent.

### Biological Activity

Shortsummary

Pan-Trk inhibitor

IC<sub>50</sub> & Target

In Vitro

#### Cell Viability Assay

Cell Line:	Ba/F3 and RIE cells expressing both TRKA and NGF
Preparation method:	The solubility of this compound in DMSO is > 17 mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below - 20 °C for several months.
Reacting conditions:	0.17 nM ~ 10 uM; 48 hrs

	Applications:	In Ba/F3 cells expressing TRKA and NGF, GNF-5837 displayed potent antiproliferation activity, with an IC50 value of 0.042 $\mu$ M. However, in parental Ba/F3 cells whose proliferation is IL-3-driven, GNF-5837 did not show antiproliferative activity up to 10 $\mu$ M. On the other hand, GNF-5837 could also significantly inhibited cell growth and proliferation of RIE cells expressing TRKA and NGF, with an IC50 value of 0.017 $\mu$ M.
In Vivo	<b>Animal experiment</b>	
	Animal models:	Rie-TRKAmNGF xenografted mouse model
	Dosage form:	25, 50 or 100 mg/kg; p.o.; q.d., for 10 days
	Applications:	After the 10-day treatment, 72% and 100% tumor regression were observed at the 50 mg/kg and 100 mg/kg treatment groups, respectively. At the dose of 25 mg/kg, GNF-5837 only partially inhibited tumor growth in Rie-TRKAmNGF xenografted mouse model.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

## Product Citations

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

[1]. Albaugh P, Fan Y, Mi Y, Sun FX, Adrian F, Li NX, Jia Y, Sarkisova Y, Kreuzsch A, Hood T, Lu M, Liu GX, Huang SL, Liu ZS, Loren J, Tuntland T, Karanewsky DS, Seidel HM and Molteni V. Discovery of GNF-5837, a selective TRK inhibitor with efficacy in rodent cancer tumor models. ACS Med. Chem. Lett. 2012. 3: 1405.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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**APEx BIO Technology**

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