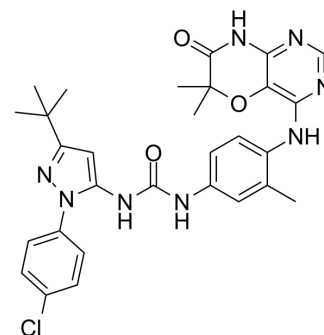


## Pan-Trk-IN-3

Cat. No.:	HY-144069
CAS No.:	2763637-66-5
Molecular Formula:	C <sub>29</sub> H <sub>31</sub> ClN <sub>8</sub> O <sub>3</sub>
Molecular Weight:	575.06
Target:	Trk Receptor; Apoptosis
Pathway:	Neuronal Signaling; Protein Tyrosine Kinase/RTK; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Pan-Trk-IN-3 (Compound 11g) is a potent inhibitor of pan-Trk and their drug-resistant mutants with IC <sub>50</sub> values of 2, 3, 2, 21, 26, 5, 7 and 6 nM against TrkA, TrkB, TrkC, TrkA <sup>G595R</sup> , TrkA <sup>G667C</sup> , TrkA <sup>G667S</sup> , TrkA <sup>F589L</sup> and TrkC <sup>G623R</sup> , respectively. Pan-Trk-IN-3 displays excellent antitumor activity and induces apoptosis <sup>[1]</sup> .			
<b>IC<sub>50</sub> &amp; Target</b>	TrkA 2 nM (IC <sub>50</sub> )	TrkC 2 nM (IC <sub>50</sub> )	TrkB 3 nM (IC <sub>50</sub> )	TrkA <sup>G667S</sup> 5 nM (IC <sub>50</sub> )
	TrkC <sup>G623R</sup> 6 nM (IC <sub>50</sub> )	TrkA <sup>F589L</sup> 7 nM (IC <sub>50</sub> )	TrkA <sup>G595R</sup> 21 nM (IC <sub>50</sub> )	TrkA <sup>G667C</sup> 26 nM (IC <sub>50</sub> )

### REFERENCES

[1]. Pan S, et al. Structural Optimization and Structure-Activity Relationship Studies of 6,6-Dimethyl-4-(phenylamino)-6H-pyrimido[5,4-b][1,4]oxazin-7(8H)-one Derivatives as A New Class of Potent Inhibitors of Pan-Trk and Their Drug-Resistant Mutants. J Med Chem. 2022 Feb 10;65(3):2035-2058.

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

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