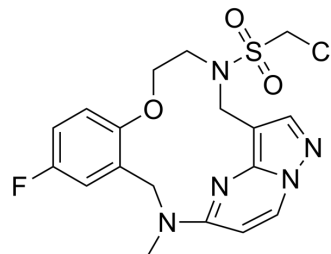


## TRK-IN-12

Cat. No.:	HY-144451
CAS No.:	2823342-34-1
Molecular Formula:	C <sub>18</sub> H <sub>19</sub> ClFN <sub>5</sub> O <sub>3</sub> S
Molecular Weight:	439.89
Target:	Trk Receptor
Pathway:	Neuronal Signaling; Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

### Description

TRK-IN-12 (Compound 9e) is a potent inhibitor of TRK (TRK<sup>G595R</sup> IC<sub>50</sub> = 13.1 nM). TRK-IN-12 is a macrocyclic derivative compound. TRK-IN-12 shows significant antiproliferative activity in the Ba/F3-LMNA-NTRK1 cell line (IC<sub>50</sub> = 0.080 μM). TRK-IN-12 has shown a better inhibitory effect (IC<sub>50</sub> = 0.646 μM) than control agent LOXO-101 in Ba/F3-LMNA-NTRK1-G595R cell line<sup>[1]</sup>.

## REFERENCES

[1]. Li P, et al. Design, synthesis and biological evaluation of macrocyclic derivatives as TRK inhibitors [published correction appears in Bioorg Med Chem Lett. 2022 Jan 15;56:128502]. Bioorg Med Chem Lett. 2021;53:128409.

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

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