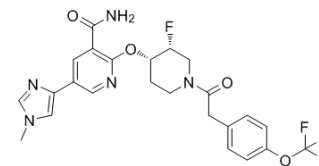


Trk-IN-4

Cat. No.:	HY-112436
CAS No.:	1799788-94-5
Molecular Formula:	C ₂₄ H ₂₃ F ₄ N ₅ O ₄
Molecular Weight:	521.46
Target:	Trk Receptor
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	Trk-IN-4 is a potent pan-Trk inhibitor in cell-based assays with IC ₅₀ s of 1.9 nM, 2.6 nM and 1.1 nM for TrkA , TrkB and TrkC , respectively ^[1] . Anti-hyperalgesic effect ^[1] .		
IC₅₀ & Target	TrkA 1.9 nM (IC ₅₀ , in cell-based assays)	TrkB 2.6 nM (IC ₅₀ , in cell-based assays)	TrkC 1.1 nM (IC ₅₀ , in cell-based assays)
In Vitro	Trk-IN-4 (Compound 10b) exhibits superb Trk selectivity with >95% inhibition of TrkA and >40% inhibition of only 1 other kinase VEGFR2 (cell-based assay for VEGFR2 IC ₅₀ >5 μM) ^[1] .		

REFERENCES

[1]. Bagal SK, et al. Discovery of Potent, Selective, and Peripherally Restricted Pan-Trk Kinase Inhibitors for the Treatment of Pain. *J Med Chem.* 2018 Aug 9;61(15):6779-6800.

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

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