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Data Sheet

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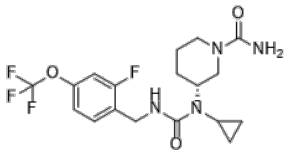
Product Name	:	JNT-517
Cat. No.	:	PC-25026
CAS No.	:	2837993-05-0
Molecular Formula	:	$C_{18}H_{22}F_4N_4O_3$
Molecular Weight	:	418.39
Target	:	Monoamine Transporter
Solubility	:	10 mM in DMSO



Biological Activity

JNT-517 (Repinatrabit, JNT517) is a highly selective, first-in-class, orally bioavailable inhibitor of SLC6A19 (B0AT1) with IC50 of 47 nM against human SLC6A19 in the isoleucine transport assay.
JNT-517 (Repinatrabit) potently inhibitsthe transport of glutamine in human intestinal epithelial cells with endogenous expression levels of SLC6A19 (IC50 = 81 nM).
JNT-517 (Repinatrabit) does not inhibit either SLC1A5, SLC7A5, or SLC6A8 at 35 uM.
JNT-517 (Repinatrabit) also shows negligible activity against mouse SLC6A19 (IC50>11.8 uM).
JNT-517 (Repinatrabit) is found to be safe and well tolerated and increased the urinary excretion of Phe in a phase 1 healthy volunteer study.

References

Wobst HJ, et al. JCI Insight. 2024 Nov 8;9(21):e182876.

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