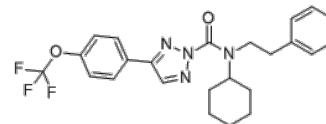


Product Name : KLH45
Cat. No. : PC-38539
CAS No. : 1632236-44-2
Molecular Formula : C₂₄H₂₅F₃N₄O₂
Molecular Weight : 458.485
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

KLH45 is a potent, selective and in vivo-active serine hydrolase **DDHD2** inhibitor with IC₅₀ of 1.3 nM, shows excellent selectivity against other serine hydrolases with exception of ABHD6.

KLH45 inactivated DDHD2 and ABHD6 in Neuro2A cells with low nanomolar in situ potency (<10 nM).

KLH45 (25 nM, 4 h) completely inactivated DDHD2 (>95% inhibition) in Neuro2A cells and showed no cross-reactivity with any of the other 40+ detected serine hydrolases with the exception of ABHD6.

KLH45 (20 mg/kg) promotes elevations triglycerides (TAGs) in the mouse brain.

References

Jordon M Inloes, et al. *Proc Natl Acad Sci U S A*. 2014 Oct 14;111(41):14924-9.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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