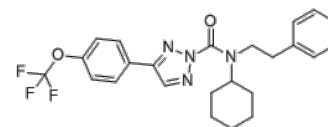


**Product Name** : KLH45  
**Cat. No.** : PC-38539  
**CAS No.** : 1632236-44-2  
**Molecular Formula** : C<sub>24</sub>H<sub>25</sub>F<sub>3</sub>N<sub>4</sub>O<sub>2</sub>  
**Molecular Weight** : 458.485  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

KLH45 is a potent, selective and in vivo-active serine hydrolase DDHD2 inhibitor with IC<sub>50</sub> 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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