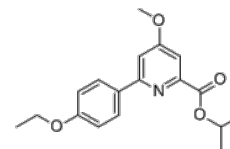


Product Name : NG-497
Cat. No. : PC-73184
CAS No. : 2598242-66-9
Molecular Formula : C₁₈H₂₁NO₄
Molecular Weight : 315.369
Target : ATGL
Solubility : 10 mM in DMSO



Biological Activity

NG-497 is a potent, highly selective, nontoxic inhibitor of human adipose triglyceride lipase (**ATGL**, PNPLA2) with IC₅₀ of 1 uM.

NG-497 dose-dependently inhibits TAG hydrolase activity of human ATGL.

NG-497 does not inhibit other TAG hydrolases of the PNPLA family and human acylglycerol hydrolases.

NG-497 also inhibits rhesus monkey ATGL, but has no substantial effects on ATGL orthologues from mouse, rat, goat, pig, dog, and marmoset.

NG-497 dose-dependent decreases isoproterenol-stimulated fatty acids (FAs) and glycerol release in human SGBS (IC₅₀=1.5 uM) and primary human adipocytes.

NG-497 reduces lipolysis-dependent respiration of HepG2 cells and does not compromise mitochondrial function via off-target effects.

References

Grabner GF, et al. *J Am Chem Soc.* 2022 Apr 1. doi: 10.1021/jacs.1c10836.

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

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