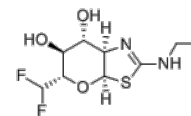


Product Name : MK-8719
Cat. No. : PC-72110
CAS No. : 1382799-40-7
Molecular Formula : C₉H₁₄F₂N₂O₃S
Molecular Weight : 268.279
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

MK-8719 (MK8719) is a highly potent, selective, CNS-penetrable inhibitor of **O-GlcNAcase** (OGA) with K_i of 7.9 nM (hOGA).

MK-8719 displays no effect against human hexosaminidase A/B (HexA/B) and human N-acetylglucosaminidase (NAGLU), as well as a panel of > 100 receptor and enzyme targets.

MK-8719 inhibits human OGA enzyme with comparable activity against the corresponding enzymes from mouse, rat, and dog.

MK-8719 produces a dose-dependent increase in O-GlcNAc in PC12 cells with IC₅₀ of 52.7 nM.

MK-8719 elevates brain and peripheral blood mononuclear cell O-GlcNAc levels in a dose-dependent manner in vivo, demonstrated robust target engagement in the brains of rats and rTg4510 mice.

References

Wang X, et al. *J Pharmacol Exp Ther*. 2020 Aug;374(2):252-263.

Selnick HG, et al. *J Med Chem*. 2019 Nov 27;62(22):10062-10097.

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

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