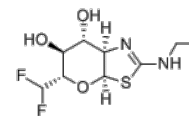


**Product Name** : MK-8719  
**Cat. No.** : PC-72110  
**CAS No.** : 1382799-40-7  
**Molecular Formula** : C<sub>9</sub>H<sub>14</sub>F<sub>2</sub>N<sub>2</sub>O<sub>3</sub>S  
**Molecular Weight** : 268.279  
**Target** : Other Targets  
**Solubility** :



## Biological Activity

MK-8719 (MK8719) is a highly potent, selective, CNS-penetrable inhibitor of O-GlcNAcase (OGA) with K<sub>i</sub> 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 IC<sub>50</sub> 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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