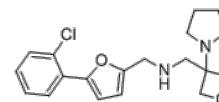


**Product Name** : FTO-43  
**Cat. No.** : PC-49236  
**CAS No.** : 2640366-38-5  
**Molecular Formula** : C<sub>19</sub>H<sub>23</sub>ClN<sub>2</sub>O<sub>2</sub>  
**Molecular Weight** : 346.855  
**Target** : Histone Demethylase  
**Solubility** : 10 mM in DMSO



## Biological Activity

FTO-43 (FTO-43 N) is a potent, selective inhibitor of the m6A demethylase fat mass- and obesity-associated protein (**FTO**) with IC<sub>50</sub> of 1.0 μM, no significant activity against the homologous m6A RNA demethylase ALKBH5 (IC<sub>50</sub>>40 μM).

FTO-43 N shows potent antiproliferative effects in glioblastoma, acute myeloid leukemia, and gastric cancer models (SNU-16 cells, IC<sub>50</sub>=17.7 μM).

FTO-43 N increases m6A and m6Am levels in gastric cancer cells consistent with FTO knockdown, downregulates Wnt/PI3K-Akt signaling in AGS gastric cancer cells.

## References

Sarah Huff, et al. *J Med Chem*. 2022 Aug 8. doi: 10.1021/acs.jmedchem.1c02075.

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

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