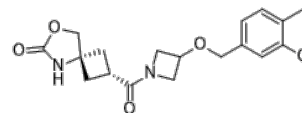


<b>Product Name</b>	: MAGL inhibitor 4f
<b>Cat. No.</b>	: PC-23496
<b>CAS No.</b>	: 2135785-20-3
<b>Molecular Formula</b>	: C <sub>18</sub> H <sub>21</sub> ClN <sub>2</sub> O <sub>4</sub>
<b>Molecular Weight</b>	: 364.83
<b>Target</b>	: Monoacylglycerol Lipase (MAGL)
<b>Solubility</b>	: 10 mM in DMSO



CAS: 2135785-20-3

## Biological Activity

MAGL inhibitor 4f (T-211) is a potent, brain-penetrant reversible monoacylglycerol (MAGL) inhibitor with IC<sub>50</sub> of 6.2 nM and 13 nM for human and mouse MAGL respectively, with high selectivity over FAAH and ABHD6 (IC<sub>50</sub> > 10,000 nM).

MAGL inhibitor 4f (T-211) (1 mg/kg) robustly increased 2-arachidonoylglycerol levels and decreased arachidonic acid levels in the mouse brain.

MAGL inhibitor 4f (T-211) (1 mg/kg) significantly decreased the cytokine and chemokine expression levels and suppressed neuronal cell loss in the hippocampi of kainic acid (KA)-injected mice.

MAGL inhibitor 4f (T-211) also ameliorated cognitive impairment in KA-injected mice.

## References

Arimura N, et al. PLoS One. 2024 Nov 21;19(11):e0312090.

Hattori Y, et al. J Med Chem. 2019 Mar 14;62(5):2362-2375.

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

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