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# Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

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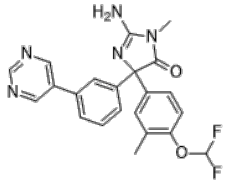
|---|---|---|
| **Product Name** | : | FAH65 |
| **Cat. No.** | : | PC-24656 |
| **CAS No.** | : | 2086224-17-9 |
| **Molecular Formula** | : | $C_{22}H_{19}F_2N_5O_2$ |
| **Molecular Weight** | : | 423.42 |
| **Target** | : | Beta-secretase (BACE) |
| **Solubility** | : | 10 mM in DMSO |



CAS: 2086224-17-9

## Biological Activity

FAH65 is a potent, APP-selective **BACE1** inhibitor with IC50 of 0.01 uM in in cell-free assays.
FAH65 displays selectivity for inhibition of APP cleavage with little activity against other BACE1 substrates neuregulin 1 (NRG1) or p-selectin glycoprotein ligand-1 (PSGL1).
FAH65 inhibits sAPPβ and Aβ1-42 production in APP-expressing cells in vitro.
FAH65 reduces BACE1 cleavage products soluble APPβ (sAPPβ) and the β C-terminal fragment (βCTF), as well as amyloid-β (Aβ) 1-40 and 1-42 in vivo in an animal model of AD.
FAH65 improved the discrimination score in the Novel Object Recognition (NOR) memory testing paradigm in murine model of AD.

## References

Campagna J, et al. ***Neurotherapeutics.*** 2025 May 20:e00610.

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

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