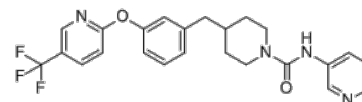


**Product Name** : PF-3845  
**Cat. No.** : PC-49009  
**CAS No.** : 1196109-52-0  
**Molecular Formula** : C<sub>24</sub>H<sub>23</sub>F<sub>3</sub>N<sub>4</sub>O<sub>2</sub>  
**Molecular Weight** : 456.46  
**Target** : FAAH  
**Solubility** : 10 mM in DMSO



## Biological Activity

PF-3845 is a potent, highly selective, covalent **FAAH** inhibitor with  $K_i$  of 0.23  $\mu$ M, highly selective for FAAH in the brain. PF-3845 is a covalent inhibitor that carbamylates FAAH's serine nucleophile. PF-3845 displays an unprecedented combination of in vivo activity and selectivity. PF-3845 selectively inhibits FAAH in vivo as determined by activity-based protein profiling and raises brain anandamide levels for up to 24 hrs, resulting in profound cannabinoid receptor-dependent reductions in inflammatory pain. PF-3845 is a valuable pharmacological tool for studying FAAH-regulated endocannabinoid pathways.

## References

Ahn K, et al. *Chem Biol*. 2009 Apr 24;16(4):411-20.  
Kinsey SG, et al. *J Pain*. 2010 Dec;11(12):1420-8.

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

E-mail: tech@probechem.com