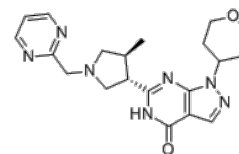


**Product Name** : PF-04447943  
**Cat. No.** : PC-60205  
**CAS No.** : 1082744-20-4  
**Molecular Formula** : C<sub>20</sub>H<sub>25</sub>N<sub>7</sub>O<sub>2</sub>  
**Molecular Weight** : 395.47  
**Target** : Phosphodiesterase (PDE)  
**Solubility** : 10 mM in DMSO



## Biological Activity

PF-04447943 (Edelinontrine) is a potent, selective, brain penetrant, orally active **PDE9A** inhibitor with IC<sub>50</sub> of 8.3 nM. PF-04447943 displays high selectivity versus PDEs1-8 and 10-11 (>150-fold over PDE1C, IC<sub>50</sub>=1394 nM). PF-04447943 significantly increases neurite outgrowth and synapse formation in cultured hippocampal neurons at 30-100 nM. PF-04447943 enhances synaptic plasticity and cognitive function in rodents.

## References

Hutson PH, et al. *Neuropharmacology*. 2011 Sep;61(4):665-76.  
Verhoest PR, et al. *J Med Chem*. 2012 Nov 8;55(21):9045-54.  
Schwam EM, et al. *Curr Alzheimer Res*. 2014;11(5):413-21.

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

E-mail: tech@probechem.com