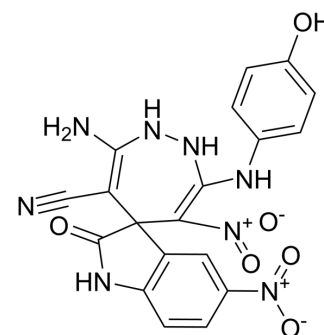


## AChe-IN-34

<b>Cat. No.:</b>	HY-155713
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>14</sub> N <sub>8</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	450.36
<b>Target:</b>	Cholinesterase (ChE)
<b>Pathway:</b>	Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	AChE-IN-34 (compound 5l) is a potent and selective AChE inhibitor with an IC <sub>50</sub> value of 3.98 μM with no significant inhibition against BChE. AChE-IN-34 inhibits AChE with a Ki of 0.044 μM in a mixed mode (Acetylthiocholine substrate; 0.1-1 mM) <sup>[1]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	AChE 3.98 μM (IC <sub>50</sub> )	AChE 0.044 μM (Ki)

### REFERENCES

[1]. Hormoz Pourtaher, et al. The anti-Alzheimer potential of novel spiroindolin-1,2-diazepine derivatives as targeted cholinesterase inhibitors with modified substituents. Sci Rep. 2023 Jul 24;13(1):11952.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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