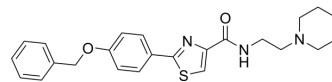


## AChE-IN-52

Cat. No.:	HY-163126
CAS No.:	2214210-63-4
Molecular Formula:	C <sub>24</sub> H <sub>27</sub> N <sub>3</sub> O <sub>2</sub> S
Molecular Weight:	421.56
Target:	Cholinesterase (ChE)
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	AChE-IN-52 (compound A6) is an acetylcholinesterase (AChE) inhibitor. AChE-IN-52 shows antitumor efficacy, especially against breast cancer MCF-7 cells. AChE-IN-52 significantly disrupts the amino acid metabolism and inhibits migration of MCF-7. AChE-IN-52 plays anticancer role by regulating Best1 and HIST1H2BJ <sup>[1]</sup> .
IC <sub>50</sub> & Target	AChE

### REFERENCES

[1]. Shi X, et al. Identification of a 2-phenylthiazole derivative acetylcholinesterase modulator with in vitro antitumor activity in breast cancer cells. Chem Biol Drug Des. 2023 Nov 27:e14402.

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

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