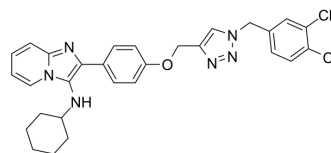


BACE1-IN-12

Cat. No.:	HY-147851
CAS No.:	2479315-19-8
Molecular Formula:	C ₂₉ H ₂₈ Cl ₂ N ₆ O
Molecular Weight:	547.48
Target:	Beta-secretase
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	BACE1-IN-12 (compound 7g) is a potent and BBB-penetrated BACE1 inhibitor, with an IC ₅₀ of 8.9 μM. BACE1-IN-12 shows selective BuChE (butyrylcholinesterase) inhibitory activity with an IC ₅₀ of 3.2 μM. BACE1-IN-12 shows effective antioxidant effect with an IC ₅₀ of 10.2 μM (DPPH). BACE1-IN-12 might be served as a potential anti-Alzheimer agent ^[1] .
IC ₅₀ & Target	IC ₅₀ : 8.9 ± 0.20 μM (BACE1), 3.2 ± 0.2 μM (BuChE) ^[1]

REFERENCES

[1]. Haghighijoo Z, et al. N-Cyclohexylimidazo[1,2-a]pyridine derivatives as multi-target-directed ligands for treatment of Alzheimer's disease. *Bioorg Chem.* 2020 Oct;103:104146.

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

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