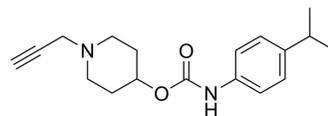


MAO-B-IN-9

| | |
|---------------------------|---|
| Cat. No.: | HY-146314 |
| CAS No.: | 2416910-88-6 |
| Molecular Formula: | C ₁₈ H ₂₄ N ₂ O ₂ |
| Molecular Weight: | 300.4 |
| Target: | Monoamine Oxidase; Amyloid-β |
| Pathway: | Neuronal Signaling |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|--|
| Description | MAO-B-IN-9 (compound 16) is a potent, selective, BBB-penetrated, irreversible and time-dependent MAO-B (monoamine oxidase B) inhibitor, with an IC ₅₀ of 0.18 μM. MAO-B-IN-9 prevents Aβ ₁₋₄₂ -induced neuronal cell death. MAO-B-IN-9 shows neuroprotective effects, which may be the result of its Aβ ₁₋₄₂ anti-aggregation effects ^[1] . MAO-B-IN-9 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups. |
| IC₅₀ & Target | MAO-B 0.178 ± 0. μM (IC ₅₀) |

REFERENCES

[1]. Košak U, et al. N-alkylpiperidine carbamates as potential anti-Alzheimer's agents. Eur J Med Chem. 2020 Jul 1;197:112282.

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

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