# Aβ42-IN-1

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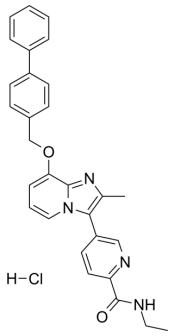
| **Cat. No.:** | HY-130609 |
| **CAS No.:** | 2582757-69-3 |
| **Molecular Formula:** | $C_{29}H_{27}ClN_4O_2$ |
| **Molecular Weight:** | 499 |
| **Target:** | γ-secretase |
| **Pathway:** | Neuronal Signaling; Stem Cell/Wnt |
| **Storage:** | Please store the product under the recommended conditions in the Certificate of Analysis. |




## BIOLOGICAL ACTIVITY

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| **Description** | Aβ42-IN-1, compound 1v, is a novel, potent and orally active γ-secretase modulator (GSM). Aβ42-IN-1 potently reduced Aβ42 levels with an $IC_{50}$ value of 0.091 μM without CYP3A4 inhibition. Aβ42-IN-1 shows a sustained pharmacokinetic profile. |
| **$IC_{50}$ & Target** | IC50: 0.091 μM (γ-secretase modulator)[1] |
| **In Vivo** | Aβ42-IN-1 (orally adminstation; 30 mg/kg)shows a good pharmacokinetic profile in mice, significantly reduces Aβ42 levels in the brain and plasma, by 36% and 66%, respectively. while the brain/plasma ratio of 1v is slightly lower than that of 1a[1].<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

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| Animal Model: | 8- week-old male ddY mice |
| Dosage: | 30 mg/kg |
| Administration: | Orally adminstation; 30 mg/kg |
| Result: | Reduced Aβ42 levels in the brain and plasma, by 36% and 66%, respectively. |

## REFERENCES

[1]. Sekioka R, et al. Discovery of N-ethylpyridine-2-carboxamide derivatives as a novel scaffold for orally active γ-secretase modulators.Bioorg Med Chem. 2019 Nov 6:115132.



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