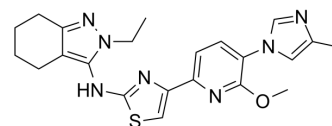


gamma-secretase modulator 5

Cat. No.:	HY-150050
CAS No.:	1353570-53-2
Molecular Formula:	C ₂₂ H ₂₅ N ₇ OS
Molecular Weight:	435.55
Target:	Amyloid- β
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	gamma-secretase modulator 5 (compound 22d) is a brain-penetrant gamma-secretase modulator (GSMs) that inhibits the production of the aggregated amyloid β -peptide A β 42 with an IC ₅₀ value of 60 nM. gamma-secretase modulator 5 can be used in the study of Alzheimer's disease ^[1] .		
IC₅₀ & Target	A β 38 305 nM (EC ₅₀)	A β 40 104 nM (IC ₅₀)	A β 42 60 nM (IC ₅₀)
In Vitro	<p>gamma-secretase modulator 5 (compound 22d) (1-10 μM, 24 h) does not affect the function of the APP751 enzyme and not inhibit Notching processing in H4 human neuroglioma cells over-expressing human APP751^[1].</p> <p>gamma-secretase modulator 5 (compound 22d) acts on Aβ38 with the EC₅₀ value of 305 nM and acts on Aβ40 with the IC₅₀ value of 104 nM^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>		
In Vivo	The pharmacokinetic parameters of gamma-secretase modulator 5 (compound 22d) in male CD-1 mice ^[1] .		
	Parameters	IV	PO
	Dose (mg/kg)	1	5
	C _{max} (ng/mL)	824	705
	T _{max} (h)	0.083	0.25
	t _{1/2} (h)	0.5	-
	AUC _{last} (ng·h/mL)	443	1089
	AUC _{inf} (ng·h/mL)	463	1243
	Cl (mL/h/kg)	2159	-

Vss (mL/kg)	1413	-
F (%)	100	53.7

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kevin D Ryneerson, et al. Design and synthesis of novel methoxypyridine-derived gamma-secretase modulators. Bioorg Med Chem. 2020 Nov 15;28(22):115734.

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

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