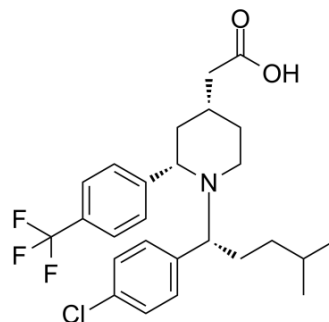


## GSM-1

Cat. No.:	HY-119165
CAS No.:	884600-68-4
Molecular Formula:	C <sub>26</sub> H <sub>31</sub> ClF <sub>3</sub> NO <sub>2</sub>
Molecular Weight:	481.98
Target:	γ-secretase
Pathway:	Neuronal Signaling; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the COA.



## BIOLOGICAL ACTIVITY

<b>Description</b>	GSM-1 is a potent <b>γ-secretase</b> modulator. GSM-1 directly targets the transmembrane domain (TMD) 1 of presenilin 1 (PS1) <sup>[1][2]</sup> .
<b>In Vitro</b>	GSM-1 increases the levels of Aβ <sub>38</sub> produced from WT APP. GSM-1 potently lowers the levels of Aβ <sub>42</sub> of WT APP and all the Phe mutants by -70–80%, even for the V44F mutant, which produced only extremely small amounts of Aβ <sub>42</sub> <sup>[1]</sup> . GSM-1 directly binds to the N-terminal fragment of PS1 <sup>[2]</sup> .

## REFERENCES

- [1]. Richard M, et al. Beta-amyloid Precursor Protein Mutants Respond to Gamma-Secretase Modulators. *J Biol Chem*. 2010 Jun 4;285(23):17798-810.
- [2]. Yu Ohki, et al. Phenylpiperidine-type γ-secretase Modulators Target the Transmembrane Domain 1 of Presenilin 1. *EMBO J*. 2011 Oct 14;30(23):4815-24.

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

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