



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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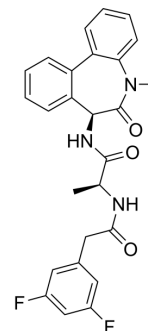
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## YO-01027 (GMP)

|                           |   |
|---------------------------|---|
| <b>Cat. No.:</b>          | HY-13526G   |
| <b>CAS No.:</b>           | 209984-56-5   |
| <b>Molecular Formula:</b> | C <sub>26</sub> H <sub>23</sub> F <sub>2</sub> N <sub>3</sub> O <sub>3</sub>              |
| <b>Molecular Weight:</b>  | 463.48  |
| <b>Target:</b>            | Notch; $\gamma$ -secretase  |
| <b>Pathway:</b>           | Neuronal Signaling; Stem Cell/Wnt   |
| <b>Storage:</b>           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

|                                     |  |
|-------------------------------------|--|
| <b>Description</b>                  | YO-01027 (Dibenzazepine) (GMP) is <a href="#">YO-01027</a> (HY-13526) produced by using GMP guidelines. GMP small molecules work appropriately as an auxiliary reagent for cell therapy manufacture. YO-01027 is a potent $\gamma$ -secretase inhibitor <sup>[1][2]</sup> .  |
| <b>IC<sub>50</sub> &amp; Target</b> | IC <sub>50</sub> : 2.92±0.22 (Notch), 2.64±0.30 (APPL) nM <sup>[1]</sup>   |
| <b>In Vitro</b>                     | YO-01027 (0.25-10 $\mu$ M, during 1-18 days) promotes iPSC generation from human neonatal keratinocytes <sup>[2]</sup> .<br>YO-01027 (2 $\mu$ M, 3 days) does not affect p53 activity in OCT4, SOX2-transduced human keratinocytes <sup>[2]</sup> .<br>YO-01027 (10 $\mu$ M, 3 days) promotes the proliferation of supporting cells (SCs) in cultured mouse cochleae <sup>[3]</sup> .<br>YO-01027 (10 $\mu$ M, 3 days) generates new hair cell (HCs) and increases the HCs number in neonatal mouse cochleae <sup>[3]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

### CUSTOMER VALIDATION

- Nat Genet. 2023 Apr;55(4):651-664.
- FASEB J. 2023 Feb;37(2):e22743.
- Med Oncol. 2021 Mar 17;38(4):41.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

- [1]. Ichida JK, et al. Notch inhibition allows oncogene-independent generation of iPSCs. Nat Chem Biol. 2014 Aug;10(8):632-639.
- [2]. Wu J, et al. Dibenzazepine promotes cochlear supporting cell proliferation and hair cell regeneration in neonatal mice. Cell Prolif. 2020 Sep;53(9):e12872.
- [3]. Groth C, et al. Pharmacological analysis of Drosophila melanogaster gamma-secretase with respect to differential proteolysis of Notch and APP. Mol Pharmacol. 2010 Apr;77(4):567-74.

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

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