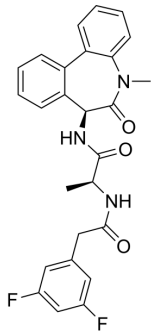
YO-01027 (GMP)

Cat. No.:	HY-13526G
CAS No.:	209984-56-5
Molecular Formula:	$C_{26}H_{23}F_2N_3O_3$
Molecular Weight:	463.48
Target:	Notch; γ-secretase
Pathway:	Neuronal Signaling; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	YO-01027 (Dibenzazepine) (GMP) is YO-01027 (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 γ-secretase inhibitor[1][2].
IC_{50} & Target	IC50: 2.92±0.22 (Notch), 2.64±0.30 (APPL) nM[1]
In Vitro	YO-01027 (0.25-10 μM, during 1-18 days) promotes iPSC generation from human neonatal keratinocytes[2]. YO-01027 (2 μM, 3 days) does not affect p53 activity in OCT4, SOX2-transduced human keratinocytes[2]. YO-01027 (10 μM, 3 days) promotes the proliferation of supporting cells (SCs) in cultured mouse cochleae[3]. YO-01027 (10 μM, 3 days) generates new hair cell (HCs) and increases the HCs number in neonatal mouse cochleae[3]. 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.

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REFERENCES

[1]. Ichida JK, et al. Notch inhibition allows oncogene-independent generation of iPS cells. 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.

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

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