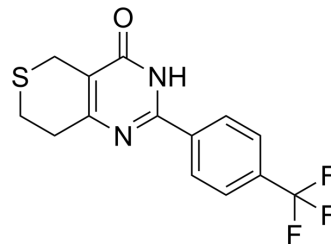


## XAV-939 (GMP)

Cat. No.:	HY-15147G
CAS No.:	284028-89-3
Molecular Formula:	C <sub>14</sub> H <sub>11</sub> F <sub>3</sub> N <sub>2</sub> OS
Molecular Weight:	312.31
Target:	PARP
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	XAV-939 (GMP) is <a href="#">XAV-939</a> (HY-15347) produced by using GMP guidelines. GMP small molecules works appropriately as an auxiliary reagent for cell therapy manufacture. XAV-939 is a tankyrase inhibitor <sup>[1]</sup> .								
<b>In Vitro</b>	<p>XAV-939 (GMP) (5 μM; 2 μM for 3 days; 1 μM) induces human pluripotent stem cells (hPSCs) to post-mitotic cortical neurons differentiation<sup>[1]</sup>.</p> <p>XAV939 (GMP) promotes anterior CNS identity<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>RT-PCR<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>Human pluripotent stem cells (hPSCs)</td> </tr> <tr> <td>Concentration:</td> <td>5 μM, 2 μM, 1 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>3 days</td> </tr> <tr> <td>Result:</td> <td>Showed downregulation of the pluripotency marker OCT4 and induction of neural and neuronal markers PAX6, FOXG1 and DCX, as well as markers of early born cortical neurons, including TBR1 (preplate, subplate and layer VI) and REELIN, in LSB+X/P/S/D conditions.</td> </tr> </table>	Cell Line:	Human pluripotent stem cells (hPSCs)	Concentration:	5 μM, 2 μM, 1 μM	Incubation Time:	3 days	Result:	Showed downregulation of the pluripotency marker OCT4 and induction of neural and neuronal markers PAX6, FOXG1 and DCX, as well as markers of early born cortical neurons, including TBR1 (preplate, subplate and layer VI) and REELIN, in LSB+X/P/S/D conditions.
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### CUSTOMER VALIDATION

- Nature. 2022 Jan;601(7894):600-605.
- Signal Transduct Target Ther. 2023 Feb 17;8(1):66.
- Cell Discov. 2020 Jun 9;6:35.
- Nat Metab. 2023 Jun;5(6):1014-1028.
- Sci Bull. 64 (2019) 986-997.

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

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## REFERENCES

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[1]. Yuchen Qi, et al. Combined small-molecule inhibition accelerates the derivation of functional cortical neurons from human pluripotent stem cells. Nat Biotechnol. 2017 Feb;35(2):154-163.

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

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