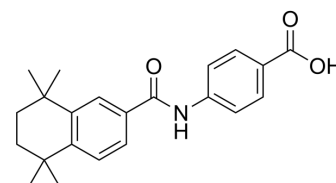


## AM580 (GMP)

<b>Cat. No.:</b>	HY-10475G
<b>CAS No.:</b>	102121-60-8
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>25</sub> NO <sub>3</sub>
<b>Molecular Weight:</b>	351.44
<b>Target:</b>	RAR/RXR
<b>Pathway:</b>	Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

<b>Description</b>	AM580 (CD336) (GMP) is <a href="#">AM580</a> (HY-10475) produced by using GMP guidelines. GMP small molecules works appropriately as an auxiliary reagent for cell therapy manufacture. AM580 is a selective RAR $\alpha$ agonist <sup>[1][2][3][4]</sup> .
<b>In Vitro</b>	<p>AM580 (GMP) (0.05 <math>\mu</math>M) induces mouse embryonic fibroblasts (MEFs) convert into chemically induced pluripotent stem cells (CiPSCs) with the adding in stage I and stage II medium<sup>[1]</sup>.</p> <p>AM580 (GMP) (0-10 <math>\mu</math>M; 4 d) induces SH-SY5Y cells develop into neuron-like cells<sup>[2]</sup>.</p> <p>AM580 (GMP) shows powerful and selective cyto-differentiating effects on acute promyelocytic leukemia cells<sup>[3]</sup>.</p> <p>AM580 (GMP) (2.5 <math>\mu</math>M; 4 d) induces myeloid progenitors develop into neutrophils<sup>[4]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

## CUSTOMER VALIDATION

- J Hazard Mater. 2022 Aug 5;435:129024.
- Allergy. 2021 Aug 8.
- EMBO J. 2021 Apr 28;e106771.
- J Exp Clin Cancer Res. 2021 Apr 26;40(1):141.
- Cancer Res. 2023 May 15;CAN-22-3977.

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

## REFERENCES

- [1]. Zhao T, et al. Single-Cell RNA-Seq Reveals Dynamic Early Embryonic-like Programs during Chemical Reprogramming. Cell Stem Cell. 2018 Jul 5;23(1):31-45.e7.
- [2]. Cai A, et al. Neuroblastoma SH-SY5Y Cell Differentiation to Mature Neuron by AM580 Treatment. Neurochem Res. 2022
- [3]. Gianni M, et al. AM580, a stable benzoic derivative of retinoic acid, has powerful and selective cyto-differentiating effects on acute promyelocytic leukemia cells. Blood. 1996 Feb 15;87(4):1520-31.

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[4]. Brok-Volchanskaya VS, et al. Effective and Rapid Generation of Functional Neutrophils from Induced Pluripotent Stem Cells Using ETV2-Modified mRNA. Stem Cell Reports. 2019 Dec 10;13(6):1099-1110.

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

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