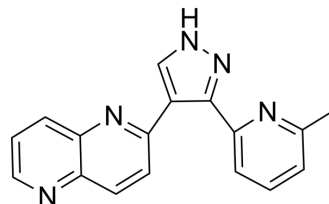


RepSox (GMP)

Cat. No.:	HY-13012G
CAS No.:	446859-33-2
Molecular Formula:	C ₁₇ H ₁₃ N ₅
Molecular Weight:	287.32
Target:	TGF-β Receptor
Pathway:	TGF-beta/Smad
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	RepSox (E-616452) (GMP) is a RepSox (HY-13012) produced by using GMP guidelines. GMP small molecules works appropriately as an auxiliary reagent for cell therapy manufacture. RepSox is a potent and selective TGF-β-RI/ALK5 inhibitor [1].
IC₅₀ & Target	IC50: ALK5 autophosphorylation (4 nM)
In Vitro	RepSox (GMP) (10 μM) induces MEFs differentiating to chemically induced pluripotent stem cells (CiPSCs) ^[1] . RepSox (GMP) (10 μM, in stage I-Stage III induction medium) induces hCiPSC cells from HEFs ^[2] . RepSox (GMP) together with Forskolin (HY-15371) increases the number of proliferative cells in MEFs expressing MyoD, confirmed by increased EdU incorporation ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Mil Med Res. 2020 Nov 1;7(1):52.
- Mil Med Res. 2020 Sep 6;7(1):42.
- Adv Sci (Weinh). 2023 Apr 29;e2301309.
- Biomaterials. 2018 Dec 6;193:30-46.
- Sci Adv. 2021 Apr 14;7(16):eabb2213.

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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]. Guan J, et al. Chemical reprogramming of human somatic cells to pluripotent stem cells. Nature. 2022 May;605(7909):325-331.
- [3]. Bar-Nur O, et al. Direct Reprogramming of Mouse Fibroblasts into Functional Skeletal Muscle Progenitors. Stem Cell Reports. 2018 May 8;10(5):1505-1521.

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

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