A 83-01 (GMP)

Cat. No.: HY-10432G

CAS No.: 909910-43-6

Molecular Formula: $C_{25}H_{19}N_5S$

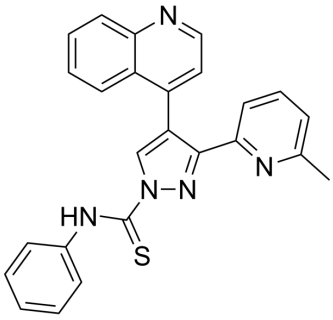
Molecular Weight: 421.52

Target: Anaplastic lymphoma kinase (ALK)

Pathway: Protein Tyrosine Kinase/RTK

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



BIOLOGICAL ACTIVITY

Description	A 83-01 (GMP) is A 83-01 (HY-10432) produced by using GMP guidelines. GMP small molecules works appropriately as an auxiliary reagent for cell therapy manufacture. A 83-01 is a potent ALK4/5/7 inhibitor[1][2].
In Vitro	A 83-01 (GMP) induces human foreskin fibroblasts converts into ardiomyocyte-like cells a more open-chromatin conformation at key heart developmental genes[1]. A 83-01 (GMP) induces cord blood or fetal liver-derived $CD34^+$ cells converts into pluripotent cells[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	A 83-01 (GMP) (human foreskin fibroblast with aMHC-GFP; incubates in vitro 6 days than transplanted into the infarcted hearts of immunodeficient mice) induces fibroblasts converts into cardiomyocyte-like cells in infarcted mouse heart[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Science. 2020 Dec 4;370(6521):eaay2002.
- Cell Stem Cell. 2022 Sep 1;29(9):1346-1365.e10.
- Nat Cell Biol. 2022 Jun;24(6):858-871.
- Nat Commun. 2022 Sep 6;13(1):5237.
- Adv Sci (Weinh). 2022 Sep;9(26):e2202505.

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REFERENCES

[1]. Guan J, et al. Chemical reprogramming of human somatic cells to pluripotent stem cells. Nature. 2022 May;605(7909):325-331.

[2]. Liu J, et al. Efficient episomal reprogramming of blood mononuclear cells and differentiation to hepatocytes with functional drug metabolism. Exp Cell Res. 2015 Nov 1;338(2):203-13.

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

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