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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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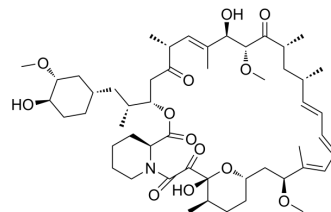
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Rapamycin (GMP Like)

Cat. No.:	HY-10219GL
CAS No.:	53123-88-9
Molecular Formula:	C ₅₁ H ₇₉ NO ₁₃
Molecular Weight:	914.17
Target:	mTOR
Pathway:	PI3K/Akt/mTOR
Storage:	4°C, protect from light



BIOLOGICAL ACTIVITY

Description	Rapamycin (Sirolimus) GMP Like is Rapamycin (HY-10219) produced by using GMP like guidelines. GMP Like small molecules works appropriately as an auxiliary reagent for cell therapy manufacture. Rapamycin is a potent and specific mTOR inhibitor [1][2][3].
In Vitro	Rapamycin GMP Like (1 nM; 2-3 weeks) induces in vitro differentiation of human embryonic stem cell (hESCs) into mineralized osteoblasts^[1]. Rapamycin GMP Like (1 nM; 2-3 weeks) enhances the osteoblastic differentiation of human embryoid bodies (hEBs)^[1]. Rapamycin GMP Like (20 nM; 4 h) serum-dependently promotes vascular smooth muscle cells (VSMCs) differentiation^[2]. Rapamycin GMP Like induces osteoblastic differentiation in rat osteoblast-like osteosarcoma cells^[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Lee KW, et al. Rapamycin promotes the osteoblastic differentiation of human embryonic stem cells by blocking the mTOR pathway and stimulating the BMP/Smad pathway. Stem Cells Dev. 2010 Apr;19(4):557-68. [Content Brief]
- [2]. Martin KA, et al. Rapamycin promotes vascular smooth muscle cell differentiation through insulin receptor substrate-1/phosphatidylinositol 3-kinase/Akt2 feedback signaling. J Biol Chem. 2007 Dec 7;282(49):36112-20. [Content Brief]
- [3]. Ogawa T, et al. Osteoblastic differentiation is enhanced by rapamycin in rat osteoblast-like osteosarcoma (ROS 17/2.8) cells. Biochem Biophys Res Commun. 1998 Aug 10;249(1):226-30. [Content Brief]

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

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