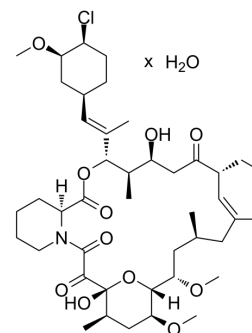


Pimecrolimus hydrate

Cat. No.:	HY-13723A
CAS No.:	1000802-56-1
Molecular Formula:	C ₄₃ H ₇₀ ClNO ₁₂
Target:	Phosphatase
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	Pimecrolimus hydrate (SDZ-ASM 981 hydrate) is a potent, nonsteroid and orally active calcineurin inhibitor. Pimecrolimus hydrate shows anti-inflammatory activity. Pimecrolimus hydrate has the potential for the research of atopic dermatitis and oral erosive lichen planus ^{[1][2][3]} .
In Vitro	Pimecrolimus hydrate (100 nM) targets T-cells and mast cells and inhibits the production and release of cytokines and other inflammatory mediators, as well as the expression of signals essential for the activation of inflammatory T-lymphocytes ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Pimecrolimus hydrate (10, 30 mg/kg; p.o.; daily for 4 weeks) increases in absolute numbers of T lymphocytes in KLH-immunised rats compared with non-immunised animals ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Biochem Pharmacol. 2021 Feb 16;114476.
- J Cell Sci. 2019 May 20;132(10):jcs227777.

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REFERENCES

- [1]. Grassberger M, et al. Pimecrolimus -- an anti-inflammatory drug targeting the skin. *Exp Dermatol*. 2004 Dec;13(12):721-30.
- [2]. Roman D, et al. Determination of the effect of calcineurin inhibitors on the rat's immune system after KLH immunisation. *Toxicol Lett*. 2004 Apr 1;149(1-3):133-40.
- [3]. Passeron T, et al. Treatment of oral erosive lichen planus with 1% pimecrolimus cream: a double-blind, randomized, prospective trial with measurement of pimecrolimus levels in the blood. *Arch Dermatol*. 2007 Apr;143(4):472-6.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA