

Product Data Sheet

Product Name: Pimecrolimus hydrate

Cat. No.: GC70779

Chemical Properties

Cas. No. 1000802-56-1

Formula $C_{43}H_{70}ClNO_{12}$

M.Wt

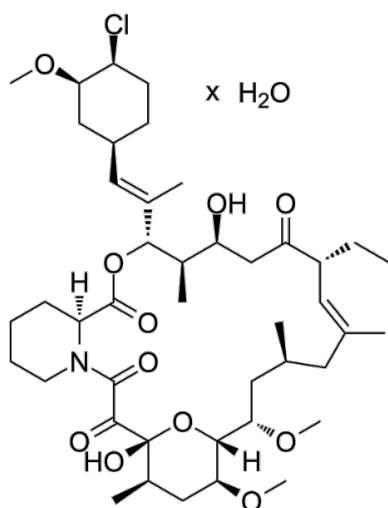
Solubility

Storage 4°C, sealed storage, away from moisture

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

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

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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.

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].

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].

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.

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