

Cyclosporin D

Chemical Properties

CAS No. :	63775-96-2
Formula:	C ₆₃ H ₁₁₃ N ₁₁ O ₁₂
Molecular Weight:	1216.66
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Cyclosporin D is a metabolite of Cyclosporin A, retaining the cyclic peptide structure of cyclosporins but exhibiting relatively weaker immunosuppressive activity. It is sometimes used as an internal standard or reference compound in analytical studies. Cyclosporin A inhibits Calcineurin activity, thereby blocking NFAT-mediated transcriptional activation and suppressing T cell activation.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 20.00 mg/mL (16.44 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8219 mL	4.1096 mL	8.2192 mL
5 mM	0.1644 mL	0.8219 mL	1.6438 mL
10 mM	0.0822 mL	0.411 mL	0.8219 mL
50 mM	0.0164 mL	0.0822 mL	0.1644 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Gschwendt M, et al. The weak immunosuppressant cyclosporine D as well as the immunologically inactive cyclosporine H are potent inhibitors in vivo of phorbol ester TPA-induced biological effects in mouse skin and of Ca²⁺/calmodulin dependent EF-2 phosphorylation in vitro. *Biochem Biophys Res Commun.* 1988 Jan 29;150(2): 545-51.

Kaiser P, et al. A new approach for the determination of immunosuppressive drugs using HPLC-MS/MS and Cs⁺ adducts. *Ger Med Sci.* 2006 Jan 18;4:Doc01.

Minguillón J, et al. Concentrations of cyclosporin A and FK506 that inhibit IL-2 induction in human T cells do not affect TGF-beta1 biosynthesis, whereas higher doses of cyclosporin A trigger apoptosis and release of preformed TGF-beta1. *J Leukoc Biol.* 2005 May;77(5):748-58. Epub 2005 Feb 16.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481