



Imiquimod

货号: I3134

储存条件: 粉末-20°C 可保存 3 年; 液体-80°C 可保存 12 月。

产品描述

Toll like receptors (TLR) is a family with ten members that are known to be important for provoking the innate immunity and establishing adaptive immunity. The imiquimod is TLR7 and 8 agonist with EC50 value of 1.5 μ M on TLR7. It is effective in treating a variety of primary skin cancers and cutaneous metastases of some malignancies.

Imiquimod reduced cell numbers on the DFT1 and DFT2 cells lines in a concentration dependent manner as measured by the WST-8 proliferation assay after incubating with 7.5 - 60 μ g/ml of imiquimod for 24 hours. When the cells were incubated with 60 μ g/ml of imiquimod for 72 hours, most of cells entered apoptotic pathways and complete apoptosis for all the cells occurred at 120 hours as measured by annexin V and PI staining .

When 30 mg/mouse of imiquimod was applied for seven consecutive days on the back skin of late telogen C57BL/6 mice one day after hair removal, the number of CD45 positive cells increased compared with control group as measure by flow cytometry. The level of IL-6, Cxcl-1, TNF-a, IL23p19 and IL-17a examined by quantitative real-time reverse transcription PCR were induced in the imiquimod treatment group.

作用机制

Imiquimod could preferentially bind to TLR7 and to a lesser extent, TLR8.

产品信息

CAS 号	99011-02-6	
分子式	C14H16N4	
分子量	240.30	
溶解度	DMSO	1.0 mg/mL (4.2 mM) warming
	Water	Insoluble
	Ethanol	Insoluble

