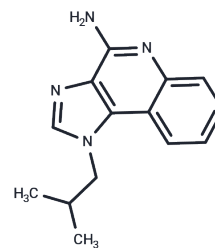


## Imiquimod

## Chemical Properties

CAS No. :	99011-02-6
Formula:	C <sub>14</sub> H <sub>16</sub> N <sub>4</sub>
Molecular Weight:	240.3
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Imiquimod (R 837) is an immune response modifier that acts as a toll-like receptor 7 agonist.
Targets(IC50)	Autophagy,HSV,SARS-CoV,TLR
In vivo	In animal models, imiquimod stimulates the innate immune response by increasing NK cell activity, activating macrophages to secrete cytokines and nitric oxide, and inducing proliferation and differentiation of B lymphocytes. Imiquimod stimulates the innate immune response through induction, synthesis, and release of cytokines, including interferon- $\alpha$ (IFN- $\alpha$ ), interleukin (IL)-6, and tumour necrosis factor (TNF)- $\alpha$ [1].

## Solubility Information

Solubility	H <sub>2</sub> O: Insoluble, DMSO: 1 mg/mL (4.16 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1615 mL	20.8073 mL	41.6146 mL
5 mM	0.8323 mL	4.1615 mL	8.3229 mL
10 mM	0.4161 mL	2.0807 mL	4.1615 mL
50 mM	0.0832 mL	0.4161 mL	0.8323 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.

### Reference

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