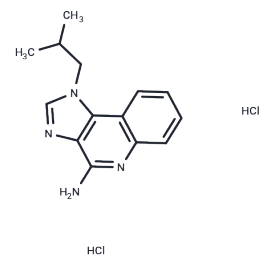


Imiquimod 2HCl

Chemical Properties

CAS No. : 2995277-02-4
 Formula: C₁₄H₁₈Cl₂N₄
 Molecular Weight: 313.23
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	Imiquimod 2HCl is a toll-like receptor 7 (TLR7) agonist and immune modulator with antiviral and antitumor activities. It can be used to establish psoriasis-like mouse models and for the study of periorbital skin cancer, pemphigus foliaceus, and COVID-19.
Targets(IC50)	Antiviral, Autophagy, HSV, SARS-CoV, TLR
In vitro	In 8-11 week-old BALB/c mice, Imiquimod 2HCl (3.125 mg/day for 6 days; applied to the skin) induces signs of erythema, scaling, and thickening on the mice's back skin, accompanied by hyperproliferative keratinocytes and disrupted epidermal differentiation[5].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1925 mL	15.9627 mL	31.9254 mL
5 mM	0.6385 mL	3.1925 mL	6.3851 mL
10 mM	0.3193 mL	1.5963 mL	3.1925 mL
50 mM	0.0639 mL	0.3193 mL	0.6385 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

- Athina Angelopoulou, et al. Imiquimod - A toll like receptor 7 agonist - Is an ideal option for management of COVID 19. Environ Res. 2020 Sep; 188: 109858.
- Aditya K Gupta, et al. Imiquimod: a review. J Cutan Med Surg. Nov-Dec 2002;6(6):554-60.
- Yuji Kan, et al. Imiquimod suppresses propagation of herpes simplex virus 1 by upregulation of cystatin A via the adenosine receptor A1 pathway. J Virol. 2012 Oct;86(19):10338-46.
- Michael P Schön, et al. The small antitumoral immune response modifier imiquimod interacts with adenosine receptor signaling in a TLR7- and TLR8-independent fashion. J Invest Dermatol. 2006 Jun;126(6):1338-47.
- Leslie van der Fits, et al. Imiquimod-induced psoriasis-like skin inflammation in mice is mediated via the IL-23/IL-17 axis. J Immunol. 2009, 182, 9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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