



Resiquimod

Catalog No: tcsc1706



Available Sizes

Size: 10mg

Size: 25mg

Size: 50mg

Size: 100mg



Specifications

Research Area:

Anti-infection; Immunology/Inflammation

CAS No:

144875-48-9

Formula:

 $C_{17}^{}H_{22}^{}N_4^{}O_2^{}$

Pathway:

Immunology/Inflammation

Target:

Toll-like Receptor (TLR)

Form:

White to off-white (Solid)

Purity / Grade:

>99.96%

Solubility:

DMF: 50mg/ml (159.04mM; Need Ultrasonic)

DMSO : ≥ 30 mg/mL (95.43 mM)





H20:

Storage Instruction:

Storage temp. 2-8°C

Alternative Names:

R848;S28463, 1H-Imidazo[4,5-c]quinoline-1-ethanol, 4-amino-2-(ethoxymethyl)- α , α -dimethyl

Observed Molecular Weight:

314.38

References

[1]. Sachan S, et al. Adjuvant potential of resiquimod with inactivated Newcastle disease vaccine and its mechanism of action in chicken. Vaccine. 2015 Aug 26;33(36):4526-32. [2]. Brugnolo F, et al. The novel synthetic immune response modifier R-848 (Resiquimod) shifts human allergen-specific CD4+ TH2 lymphocytes into IFNgamma-producing cells. J Allergy Clin Immunol. 2003 Feb;111(2):380-8. [3]. Zhou ZX, et al. Immune effects of R848: evidences that suggest an essential role of TLR7/8-induced, Myd88-and NF-κB-dependent signaling in the antiviral immunity of Japanese flounder (Paralichthys olivaceus). Dev Comp Immunol. 2015 Mar;49(1):113-20.

Product Description

Resiguimed is a Toll-like receptor 7 and 8 (**TLR7/TLR8**) agonist that induces the levels of cytokines such as TNF- α , IL-6 and IFN- α .

In Vitro: Resiquimod (R-848) induces both hapten- and allergen-specific circulating T cells, including TH2 effectors, to produce IFN-γ and even to lose the ability to produce IL-4^[2]. Resiquimod (R848) enhances PBL proliferation in a dose-dependent manner, and increases the number of BrdU-positive cells in BrdU incorporation assay. Cells treated with R848 exhibits significantly increased (3.5-fold) luciferase (a reporter of NF-κB activity) activity^[3].

In Vivo: Resiquimod (R-848) (50 μ g/bird, i.m. route) significantly up-regulates the expression of IFN- α , IFN- β , IFN- γ , IL-1 β , IL-4, iNOS and MHC-II genes in SPF chicken^[1].

$$O \longrightarrow N \longrightarrow OH$$
 $H_2N \longrightarrow N$



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