Product Data Sheet

**Product Name:** Resiquimod

**CAS No.:** 144875-48-9

**Cat. No.:** HY-13740

**MWt:** 314.38

**Formula:** C17H22N4O2

**Purity:** >98%

**Solubility:** DMSO >48 mg/ml

**Mechanisms:** Pathways: Immunology/Inflammation; Target: TLR

**Biological Activity:**
Resiquimod (R-848; S28463) is a potent synthetic agonist of TLR7/TLR8 that possesses antiviral and antitumoral activities. It increases the levels of cytokines such as TNF-α, IL-6 and IFN-α.

**IC50 Value:**
Target: TLR7/TLR8

**In vitro:** Resiquimod, like CD40, stimulates antibody secretion, cytokine production, protection from apoptosis, and CD80 upregulation. In addition, it shows synergy with signals delivered by the B cell antigen receptor and heightens CD40-mediated B cell activation, demonstrating that resiquimod can enhance antigen-specific responses in B lymphocytes [1]. R-848 induced both hapten- and allergen-specific circulating T cells, including T(H)2 effectors, to produce IFN-gamma and even to lose the ability to produce IL-4, thus shifting their phenotype of cytokine production to a type 0 (T(H)0) or even T(H)1 profile. This effect was associated with an increase...

**References:**

**Caution:** Not fully tested. For research purposes only

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