



15-1016: Imidazoquinoline Resiquimod (R-848)

Application : Functional Assay

Alternative Name : Resiquimod; S 28463; R848

Description

Formula: C₁₇H₂₂N₄O₂

CAS#144875-48-9

MW: 314.4

Immune response modifier. Potent antitumor and antiviral compound. Stimulates antibody secretion and cytokine production. Used as adjuvant to increase the effectiveness of vaccines, potent and selective synthetic ligand for Toll-like receptor 7 (TLR7) in mouse and for TLR7 and TLR8 in human. Activates immune cells via the TLR7/TLR8 MyD88-dependent signaling pathway and leads to the induction of NF- κ B, NLRP3/NALP3 inflammasome activator, independent of TLRs and RIG-I. Upregulator of the opioid growth factor receptor. Used in the treatment of skin lesions such as herpes simplex virus.

Product Info

Amount : 1mg / 500 μ g

Purification : Purity \geq 98%

Content : liquid (1 mg/ml)

Storage condition : Store the product at 4°C for short term and at -20°C for long-term storage. Product is stable for 2 years at -20°C.

Application Note

Solubility: Soluble in DMSO, dichloromethane or methanol. Slightly soluble in acetonitrile or ethyl acetate.



Fig-1: Chemical structure of Imidazoquinoline Resiquimod (R-848)