

## 15-1016: Imidazoquinoline Resiquimod (R-848)

**Application :** Functional Assay  
**Alternative Name :** Resiquimod; S 28463; R848

### Description

**Formula:** C<sub>17</sub>H<sub>22</sub>N<sub>4</sub>O<sub>2</sub>

**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- $\kappa$ 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  $\mu$ g  
**Purification :** Purity 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.

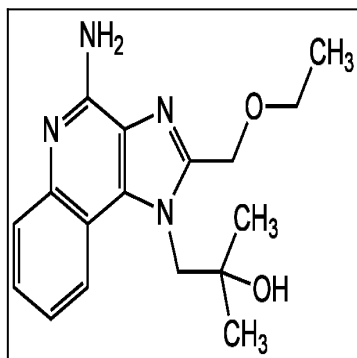


Fig-1: Chemical structure of Imidazoquinoline Resiquimod (R-848)