



LKT Laboratories, Inc.

## Resiquimod

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### Product Information

**Product ID** R183731

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

**Chemical Name** 1-[4-amino-2-(ethoxymethyl)imidazo[4,5-c]quinolin-1-yl]-2-methylpropan-2-ol

**Synonym** R-848, R848, S28463, alpha-dimethyl-1H-imidazo(4,5-c)quinoline-1-ethanol.

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

**Formula Wt.** 314.39

**Melting Point**

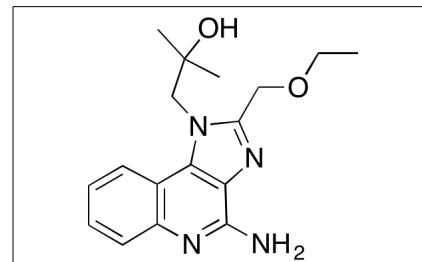
**Purity** ≥98%

**Solubility** Soluble in DMSO (100 mM), ethanol (50 mM), 100% or 5% methanol, and dichloromethane. Insoluble in water.

**Store Temp** -20°C

**Ship Temp** Ambient

**Description** Resiquimod is an imidazoquinoline compound that is a TLR7/8 agonist. Resiquimod has been shown to activate dendritic cells in both healthy and inflamed skin, making it effective to induce regression of cutaneous T-cell lymphoma lesions. BALB/c mice treated with resiquimod showed high levels of resistance against parasitic infection. Furthermore, resiquimod has been shown to produce cardioprotective effects in anoxia-regeneration injuries of neonatal cardiomyocytes.



### Pricing and Availability

**Bulk quantities available upon request**

Product ID	Size	List Price
R183731	5 mg	\$60.10
R183731	10 mg	\$105.30
R183731	25 mg	\$217.90
R183731	50 mg	\$375.60

**References** Rook AH, Gelfand JM, Wysocka M, et al. Topical resiquimod can induce disease regression and enhance T-cell effector functions in cutaneous T-cell lymphoma. *Blood*. 2015 Sep 17;126(12):1452-1461. PMID: 26228486.

Craft N, Birnbaum R, Quanquin N, et al. Topical resiquimod protects against visceral infection with *Leishmania infantum* chagasi in mice. *Clin Vaccine Immunol*. 2014 Sep;21(9):1314-1322. PMID: 25030052.

Wang YY, Liu S, Lian F, et al. Toll-like receptor 7/8 agonist resiquimod induces late preconditioning in neonatal cardiac myocytes. *Acta Pharmacol Sin*. 2011 May;32(5):565-572. PMID: 21516132.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.