

Imiquimod, TLR7 Agonist

Catalog	Unit
TBI4230-50MG	50 mg
TBI4230-250MG	250 mg

Product Details

Formal Name: 1-(2-Methylpropyl)imidazo[4,5-c]quinolin-4-amine

Alternate Names: R837

Molecular Formula: C₁₄H₁₄N₄

Formula Weight: 240.30

CAS Number: 99011-02-6

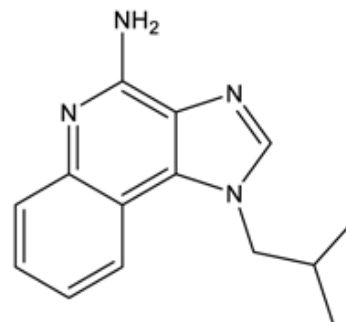
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 2 mg/ml with warming)

Storage: -20°C

Stability: ≥ 1 year.



Applications

TLR7 Agonist

Functions

Imiquimod is a Toll-like receptor 7/8 agonist with anti-viral and anti-tumor properties. Enhances innate immune system leading to Th1-mediated antitumor immune response. Increases levels of IFN α , TNF α , and IL-12. Imiquimod has also been shown to act as an antagonist at adenosine A1 and A2A receptors augmenting its proinflammatory effects. Clinically useful for the treatment of basal cell carcinoma, actinic keratosis, and genital warts. Imiquimod also upregulates the expression of opioid growth factor receptor(OGFr). OGF is involved in regulation of inhibitory kinases in the cell cycle process.

Application Procedures

First dissolved in DMSO (up to 2 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.