Imiquimod
Item No. 14956

CAS Registry No.: 99011-02-6
Formal Name: 1-(2-methylpropyl)-1H-imidazo[4,5-c]quinolin-4-amine
Synonyms: Aldara, Beselna, R-837, TMX 101, Zyclara
MF: C_{14}H_{16}N_{4}
FW: 240.3
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max} = 240, 246, 267, 326 nm

Laboratory Procedures
For long term storage, we suggest that imiquimod be stored as supplied at -20°C. It should be stable for at least two years.
Imiquimod is supplied as a crystalline solid. Imiquimod is sparingly soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, and is also sparingly soluble in aqueous solutions.
Imiquimod is an imidazoquinoline compound that activates toll-like receptor 7 (EC_{50} = 2.1 µM) on immune cells, inducing the production of IFN-α, IL-12, and other mediators. It also up-regulates the opioid growth factor (OGF) receptor on a variety of cancer cell types, enabling an OGF-mediated block of cell proliferation (IC_{50} = 2 µM). These actions make imiquimod efficacious as an anti-viral and anti-tumor compound when applied topically.

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/14956