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## Product Datasheet

### Imiquimod, CAS [[99011-02-6]] FBM-10-4230

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| Article Name               | Imiquimod, CAS [[99011-02-6]]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Biozol Catalog Number      | FBM-10-4230                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Supplier Catalog Number    | 10-4230                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Alternative Catalog Number | FBM-10-4230-50MG,FBM-10-4230-250MG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Manufacturer               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Category                   | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Product Description        | TLR7 agonist...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Molecular Weight           | 240.30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Purity                     | 98% by TLC NMR Conforms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Form                       | White solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| CAS Number                 | [99011-02-6]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Formula                    | C14H14N4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Application Notes          | Imiquimod is a Toll-like receptor 7/8 agonist with anti-viral and anti-tumor properties. <sup>1</sup> Enhances innate immune system leading to Th1-mediated antitumor immune response. <sup>2</sup> Increases levels of IFN $\alpha$ , TNF $\alpha$ , and IL-12. Imiquimod has also been shown to act as an antagonist at adenosine A1 and A2A receptors augmenting its proinflammatory effects. <sup>3,4</sup> 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). <sup>5,6</sup> OGF is involved in regulation of inhibitory kinases in the cell cycle process. |