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## Product Datasheet

### ICRF-193, CAS [[21416-88-6]] FBM-10-5056

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| Article Name               | ICRF-193, CAS [[21416-88-6]]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Biozol Catalog Number      | FBM-10-5056                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Supplier Catalog Number    | 10-5056                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Alternative Catalog Number | FBM-10-5056-1MG, FBM-10-5056-5MG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Manufacturer               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Category                   | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Product Description        | Topoisomerase II inhibitor...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Molecular Weight           | 282.30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Purity                     | >98% by TLC NMR (Conforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Form                       | Off-white solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| CAS Number                 | [21416-88-6]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Formula                    | C12H18N4O4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Application Notes          | ICRF-193 is a topoisomerase II poison. <sup>1</sup> Topoisomerase poisons are a special subclass of topoisomerase inhibitors that stabilize topoisomerase-DNA strand passing intermediates and thus cause the topoisomerases to become a cytotoxic DNA-damaging agent. <sup>1</sup> It readily induces DNA strand breaks in V79 and irs-2 Chinese hamster lung fibroblasts via a novel mechanism. <sup>2</sup> Displays cardioprotective (against anthracycline toxicity) <sup>3</sup> and anti-inflammatory effects via reduction of IL-1 $\beta$ secretion by macrophages <sup>4</sup> . An important tool for studying the cellular response to DNA double-strand breaks. <sup>5</sup> |