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## Product Datasheet

### NU7441, CAS [[503468-95-9]] FBM-10-4810

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| Artikelname              | NU7441, CAS [[503468-95-9]]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Artikelnummer            | FBM-10-4810                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Hersteller Artikelnummer | 10-4810                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Alternativnummer         | FBM-10-4810-5MG,FBM-10-4810-25MG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Hersteller               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Kategorie                | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Produktbeschreibung      | DNA-PK inhibitor...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Molekulargewicht         | 413.49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Reinheit                 | 98% by TLC NMR (Conforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Formulierung             | Off-white to beige solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| CAS Nummer               | [503468-95-9]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Formel                   | C25H19NO3S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Anwendungsbeschreibung   | NU7441 is a potent ( $IC_{50} = 13 \text{ nM}$ ) and selective ATP-competitive inhibitor of DNA-dependent protein kinase (DNA-PK). <sup>1,2</sup> It increased the toxicity of ionizing radiation and etoposide on SW620 human colon cancer lines via impeding DNA double-strand break repair. <sup>3</sup> NU7441 also increased the radio/chemosensitivity of various other cancer cell lines. <sup>3-6</sup> Reduces the frequency of NHEJ repair while enhancing the rate of HDR repair following CRISPR/Cas9-mediated gene editing. <sup>7</sup> |