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## Product Datasheet

**S07-2010, CAS [[1223194-71-5]]**

**FBM-10-4148**

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| Artikelname              | S07-2010, CAS [[1223194-71-5]]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Artikelnummer            | FBM-10-4148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Hersteller Artikelnummer | 10-4148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Alternativnummer         | FBM-10-4148-5MG,FBM-10-4148-25MG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Hersteller               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Kategorie                | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Produktbeschreibung      | pan-AKR1C inhibitor...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Molekulargewicht         | 371.46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Reinheit                 | 98% by TLC NMR (Conforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Formulierung             | Off-white solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| CAS Nummer               | [1223194-71-5]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Formel                   | C19H21N3O3S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Anwendungsbeschreibung   | <p>S07-2010 is a pan-aldo-keto reductase 1C (AKR1C) inhibitor (IC50s for AKR1C isoforms: 1C1 = 470 nM, 1C2 = 730 nM, 1C3 = 190 nM, 1C4 = 360 nM). Dysregulated AKR1C3 expression (and overexpression of all AKR1C isoforms in general) is related to resistance to radio- and chemotherapy in various tumor types and is associated with development of and poor prognosis in many cancers. S07-2010 displayed cytotoxicity to doxorubicin-resistant MCF-7 cells (IC50 = 127.5 <math>\mu</math>M) and cisplatin-resistant A549 cells (IC50 = 5.51 <math>\mu</math>M). Combination treatment of chemotherapeutic agents and S07-2010 showed synergistic effects in drug-resistant cell lines.</p> |