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## Product Datasheet

### **RU.521, CAS [[2262452-06-0]] FBM-10-4140**

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| Artikelname              | RU.521, CAS [[2262452-06-0]]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Artikelnummer            | FBM-10-4140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Hersteller Artikelnummer | 10-4140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Alternativnummer         | FBM-10-4140-5MG,FBM-10-4140-25MG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Hersteller               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Kategorie                | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Produktbeschreibung      | cGAS inhibitor...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Molekulargewicht         | 415.23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Reinheit                 | 98% by TLC NMR (Conforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Formulierung             | Off-white to pale pink solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| CAS Nummer               | [2262452-06-0]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Formel                   | C19H12Cl2N4O3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Anwendungsbeschreibung   | Inhibitor of cyclic GMP-AMP synthase (cGAS), an important innate immune system sensor of foreign cytoplasmic double-stranded DNA. <sup>1,2</sup> IC <sub>50</sub> = 0.70 µM in dsDNA-stimulated RAW macrophages <sup>1</sup> and ~0.80 µM in wild type human THP-1 cells <sup>2</sup> . It is selective for cGAS with no targeting of IFNB1 protein, interferon receptors, or downstream signaling components of the JAK/STAT pathway. RU.521 was able to significantly increase cardiac output in a mouse model of sepsis. <sup>3</sup> Active in both mouse and human cell lines. |