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## Product Datasheet

**WNK463, CAS [[2012607-27-9]]**

**FBM-10-4109**

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| Artikelname              | WNK463, CAS [[2012607-27-9]]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Artikelnummer            | FBM-10-4109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Hersteller Artikelnummer | 10-4109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Alternativnummer         | FBM-10-4109-5MG, FBM-10-4109-25MG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Hersteller               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Kategorie                | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Produktbeschreibung      | WNK kinase inhibitor...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Molekulargewicht         | 463.47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Reinheit                 | >98% by HPLC NMR (Conforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Formulierung             | White solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| CAS Nummer               | [2012607-27-9]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Formel                   | C21H24F3N7O2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Anwendungsbeschreibung   | <p>Potent and selective pan-With-No-Lysine (WNK) kinase inhibitor (IC50s: WNK1 = 5 nM, WNK2 = 1 nM, WNK3 = 6 nM, WNK4 = 9 nM), an important enzyme in blood pressure regulation and body fluid and electrolyte homeostasis.<sup>1</sup> WNK kinases respond to hypertonicity by regulating SLC12 cation chloride transporters to rescue cell volume.<sup>2</sup> WNK463 reduced migration of invasive types of breast cancer and attenuated tumor growth and metastatic burden in a mouse model.<sup>3</sup> It induced a significant increase in NLRP3 inflammasome activation and pyroptosis specifically via WNK1 inhibition as well as increasing TNF production without inflammasome activation.<sup>4</sup></p> |