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## Product Datasheet

### **PB28 dihydrochloride, CAS [[172907-03-8]] FBM-10-4665**

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|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Artikelname              | PB28 dihydrochloride, CAS [[172907-03-8]]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Artikelnummer            | FBM-10-4665                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Hersteller Artikelnummer | 10-4665                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Alternativnummer         | FBM-10-4665-5MG,FBM-10-4665-25MG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Hersteller               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Kategorie                | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Produktbeschreibung      | High affinity sigma 2 ligand / Anti-SARS-COV2...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Molekulargewicht         | 443.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Reinheit                 | 99% by HPLC NMR (Conforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Formulierung             | White or off-white solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| CAS Nummer               | [172907-03-8]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Formel                   | C <sub>24</sub> H <sub>38</sub> N <sub>2</sub> O <sub>2</sub> HCl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Anwendungsbeschreibung   | <p>PB28 is a very potent high affinity (<math>K_i = 5.3 \text{ nM}</math><sup>1</sup>, <math>0.34 \text{ nM}</math><sup>2</sup>) sigma 2 agonist. Selective for sigma 2 over sigma<sub>1</sub> (approx 30-40x).<sup>1,2</sup> PB28 inhibited cell growth in MCF7 and MCF7 ADR breast cancer cells and displayed strong synergism with doxorubicin.<sup>3</sup> PB28 potently inhibited Kv2.1 currents in a sigma-independent manner.<sup>4</sup> PB28 was recently found to have potent (<math>IC_{50} = 280 \text{ nM}</math>) anti-SARS-CoV2 activity.<sup>5</sup></p> |