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## Product Datasheet

### **PLX5622, CAS [[1303420-67-8]] FBM-10-4726**

|                          |                                     |
|--------------------------|-------------------------------------|
| Artikelname              | PLX5622, CAS [[1303420-67-8]]       |
| Artikelnummer            | FBM-10-4726                         |
| Hersteller Artikelnummer | 10-4726                             |
| Alternativnummer         | FBM-10-4726-5MG,FBM-10-4726-25MG    |
| Hersteller               | Focus Biomolecules                  |
| Kategorie                | Biochemikalien                      |
| Produktbeschreibung      | Highly selective CSF1R inhibitor... |
| Molekulargewicht         | 395.41                              |
| Reinheit                 | 98% by HPLC NMR (Conforms)          |
| Formulierung             | Pale yellow solid                   |
| CAS Nummer               | [1303420-67-8]                      |
| Formel                   | C21H19F2N5O                         |

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| Anwendungsbeschreibung | <p>Highly selective (&gt;20 fold over KIT and FLT3, &gt;60 fold over 200 other kinases) and brain-penetrant inhibitor of colony-stimulating factor 1 receptor (CSF1R, IC50 = 16 nM).<sup>1</sup> It prevented plaque formation in 5xFAD1 and 3xTg2 mouse models of Alzheimers disease via elimination of microglia in a CSF1R-dependent manner. PLX5622 showed efficacy in a mouse neuropathic pain model via reduction of CD86+ macrophages resulting in reduced expression of pro-inflammatory cytokines.<sup>3</sup> It also was able to ameliorate peripheral neuropathy in aging mice.<sup>4</sup> PLX5622 displayed neuroprotective effects during the chronic phase of a traumatic brain injury mouse model.<sup>5</sup> PLX5622 has also been shown to affect myeloid and lymphoid compartments, indicating that its affects are not limited to microglia and include peripheral immune cells.<sup>6</sup></p> |
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