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## Product Datasheet

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

|                            |                                                                 |
|----------------------------|-----------------------------------------------------------------|
| Article Name               | PLX5622, CAS [[1303420-67-8]]                                   |
| Biozol Catalog Number      | FBM-10-4726                                                     |
| Supplier Catalog Number    | 10-4726                                                         |
| Alternative Catalog Number | FBM-10-4726-5MG,FBM-10-4726-25MG                                |
| Manufacturer               | Focus Biomolecules                                              |
| Category                   | Biochemikalien                                                  |
| Product Description        | Highly selective CSF1R inhibitor...                             |
| Molecular Weight           | 395.41                                                          |
| Purity                     | 98% by HPLC NMR (Conforms)                                      |
| Form                       | Pale yellow solid                                               |
| CAS Number                 | [1303420-67-8]                                                  |
| Formula                    | C <sub>21</sub> H <sub>19</sub> F <sub>2</sub> N <sub>5</sub> O |

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| Application Notes | <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, IC<sub>50</sub> = 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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