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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	C21H19F2N5O

Application Notes	Highly selective (>20 fold over KIT and FLT3, >60 fold over 200 other kinases) and brain-penetrant inhibitor of colony-stimulating factor 1 receptor (CSF1R, IC₅₀ = 16 nM).¹ 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.³ It also was able to ameliorate peripheral neuropathy in aging mice.⁴ PLX5622 displayed neuroprotective effects during the chronic phase of a traumatic brain injury mouse model.⁵ 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.⁶
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