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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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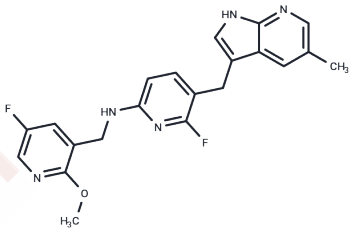
Data Sheet (Cat.No.T7100)

PLX5622

Chemical Properties



CAS No. : 1303420-67-8

Formula: C21H19F2N5O

Molecular Weight: 395.41

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	PLX5622 is a CSF1R inhibitor (IC50=0.016 μM) with selectivity, oral activity, and blood-brain barrier permeability. PLX5622 induces sustained and specific elimination of microglia.
Targets(IC50)	c-Fms,CSF-1R
In vitro	**METHODS**: CX CR1+/GFP mouse-derived mixed glial cell cultures were treated with PLX5622 (0.1-10 μM) for 7 days and cell counts were assayed by Flow cytometry. **RESULTS**: Although there was a dose-dependent decrease in microglia numbers under PLX5622, no decrease in GFAP+ astrocytes was seen, but rather a gradual increase, along with a decrease in PDGFR-a OPC. [1] **METHODS**: Cerebellar sections prepared from PLP-eGFP mouse pups were treated with PLX5622 (1-20 μM) for 3 days followed by Immunostaining. **RESULTS**: After three days of treatment, PLX5622 at concentrations greater than 2 μM eliminated more than 95% of microglia. [2]
In vivo	**METHODS**: To study in vivo activity, PLX5622 (1200 mg/kg) was administered to PLP eGFP mice by feed for 7-21 days. **RESULTS**: PLX5622 was effective in depleting microglia in the central nervous system of adult mice. treatment with PLX5622 for 7 days had no effect on oligodendrocyte progenitor cell populations; however, a mild reduction was observed after 21 days in some central nervous system regions. [2]

Solubility Information

Solubility	DMSO: 16.67 mg/mL (42.15 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.529 mL	12.6451 mL	25.2902 mL
5 mM	0.5058 mL	2.529 mL	5.058 mL
10 mM	0.2529 mL	1.2645 mL	2.529 mL
50 mM	0.0506 mL	0.2529 mL	0.5058 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Garcia-Agudo LF, et al. Genetically induced brain inflammation by Cnp deletion transiently benefits from microglia depletion. FASEB J. 2019 Jul;33(7):8634-8647.