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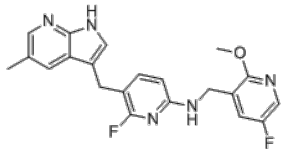
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	PLX5622
Cat. No.	:	PC-62741
CAS No.	:	1303420-67-8
Molecular Formula	:	$C_{21}H_{19}F_2N_5O$
Molecular Weight	:	395.414
Target	:	c-Fms (CSF1R)
Solubility	:	10 mM in DMSO



Biological Activity

PLX5622 (PLX-5622) is a potent, selective, orally active inhibitor of **CSF1R tyrosine kinase (c-Fms)** activity with Ki of 5.9 nM, 60-fold less potency against KIT.
PLX5622 dispalys least 50-fold selectivity over 4 related kinases, and over 100-fold selectivity against a panel of 230 kinases.
PLX5622 prevents microglial plaque association and improves cognition in 3xTg-AD mice, also depletes microglia and alleviates the catatonic symptoms of Cnp mutants.

References

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Spangenberg E, et al. ***Nat Commun.*** 2019 Aug 21;10(1):3758.

Dagher NN, et al. ***J Neuroinflammation.*** 2015 Aug 1;12:139.

Valdearcos M, et al. ***Cell Rep.*** 2014 Dec 24;9(6):2124-38.

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