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DATASHEET

PLX5622

Product overview

Name	PLX5622
Cat No	HB17582
Alternative names	PLX5622
Purity	>98%
Description	Highly selective, potent CSF-1R inhibitor. Widely used microglia-depletion agent.

Biological Data

Biological description	Highly selective, brain penetrant, potent CSF-1R inhibitor ($K_i = 5.9$ nM). Allows specific and extended brain microglial elimination, preceding and during pathology development.
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (50 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	6-Fluoro-N-((5-fluoro-2-methoxypyridin-3-yl)methyl)-5-((5-methyl-1H-pyrrolo[2,3-b]pyridin-3-yl)methyl)pyridin-2-amine
Molecular Weight	395.41
Molecular Formula	C ₂₂ H ₁₉ F ₂ N ₅ O
CAS Number	1303420-67-8
PubChem identifier	52936034
SMILES	CC1=CC2=C(NC=C2CC3=C(N=C(C=C3)NCC4=C(N=CC(=C4)F)OC)F)N=C1
InChi	InChI=1S/C21H19F2N5O/c1-12-5-17-14(9-26-20(17)25-8-12)6-13-3-4-18(28-19(13)23)24-10-15-7-16(22)11-27-21(15)29-2/h3-5,7-9,11H,6,10H2,1-2H3,(H,24,28)(H,25,26)
InChiKey	NSMOZFXKTHCPTQ-UHFFFAOYSA-N

References

Putting PLX5622 into perspective: microglia in central nervous system viral infection.

Spiteri AG et al (2023) Neural regeneration research 18

PubMedID [36453408](#)

Low-dose PLX5622 treatment prevents neuroinflammatory and neurocognitive sequelae after sepsis.

Mein N et al (2023) Journal of neuroinflammation 20

PubMedID [38041192](#)

Depletion of embryonic microglia using the CSF1R inhibitor PLX5622 has adverse sex-specific effects on mice, including accelerated weight gain, hyperactivity and anxiolytic-like behaviour.

Rosin JM et al (2018) Brain, behavior, and immunity 73

PubMedID

30056204
