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DATASHEET

Pexidartinib (PLX3397)

Product overview

Name	Pexidartinib (PLX3397)
Cat No	HB8991
Biological action	Inhibitor
Purity	>98%
Description	Potent CSF-1R inhibitor. Widely used microglia-depletion agent.

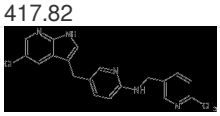
Biological Data

Biological description	Potent CSF-1R inhibitor (IC_{50} = 20 nM). Reduces system and local macrophages accumulation without affecting Gr-1+ myeloid derived suppressor cells in the B16F10 mouse melanoma model. Promotes tumor growth control in combination with CD8 T-cell immunotherapy and improces adoptive cell therapy efficacy in the $BRAF^{V600E}$-driven mouse melanoma model. Orally bioavailable. Recently reported to eliminate brain microglial temporarily and recoverably in adult mice.

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in DMSO (100 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	N-[5-[(5-Chloro-1H-pyrrolo[2,3-b]pyridin-3-yl)methyl]-2-pyridinyl]-6-(trifluoromethyl)-3-pyridinemethanamine
Molecular Weight	417.82
Chemical structure	
Molecular Formula	$C_{20}H_{15}ClF_3N_5$
CAS Number	1029044-16-3
PubChem identifier	25151352
SMILES	C1=CC(=NC=C1CC2=CNC3=C2C=C(C=N3)Cl)NCC4=CN=C(C=C4)C(F)(F)F
InChi	InChI=1S/C20H15ClF3N5/c21-15-6-16-14(10-28-19(16)29-11-15)5-12-2-4-18(26-7-12)27-9-13-1-3-17(25-8-13)20(22,23)24/h1-4,6-8,10-11H,5,9H2,(H,26,27)(H,28,29)
InChiKey	JGWRKYUXBBNENE-UHFFFAOYSA-N
MDL number	MFCD28900745

References

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