

Product Name: Pexidartinib

Catalog No.: 7590

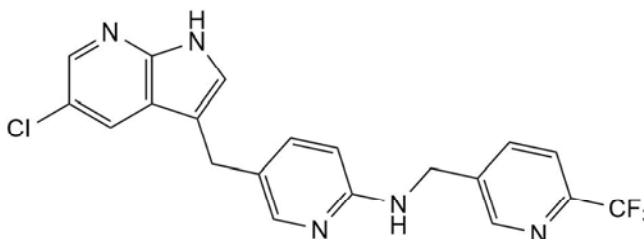
Batch No.: 1

CAS Number: 1029044-16-3

IUPAC Name: *N*-[5-[(5-Chloro-1*H*-pyrrolo[2,3-*b*]pyridin-3-yl)methyl]-2-pyridinyl]-6-(trifluoromethyl)-3-pyridinemethanamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₅ClF₃N₅.
Batch Molecular Weight: 417.82
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.49	3.62	16.76
Found	57.52	3.59	16.62

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Pexidartinib is a potent colony-stimulating factor-1 receptor (CSF-1R) tyrosine kinase inhibitor (IC₅₀ = 20 nM). In the B16F10 mouse melanoma model, Pexidartinib reduces the systemic and local accumulation of macrophages without affecting Gr-1⁺ myeloid derived suppressor cells. When combined with tumor-specific CD8 T cell immunotherapy, Pexidartinib promotes the control of tumor growth. In the BRAF^{V600E}-driven mouse melanoma model, Pexidartinib improves the efficacy of adoptive cell therapy with reduction of TIMs and an increase in tumor-infiltrating lymphocytes and T cells. Orally bioavailable.

Physical and Chemical Properties:

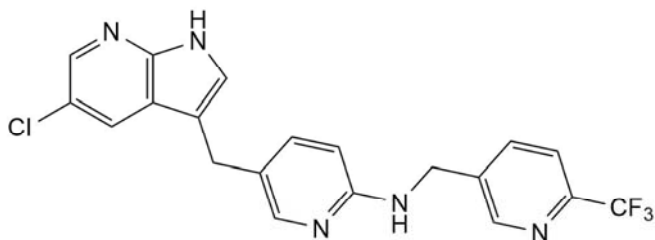
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Batch Molecular Weight: 417.82

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

DeNardo et al (212) Leukocyte complexity predicts breast cancer survival and functionally regulates response to chemotherapy. *Cancer Discov.* **1** 54. PMID: 22039576.

Mok et al (2014) Inhibition of CSF-1 receptor improves the antitumor efficacy of adoptive cell transfer immunotherapy. *Cancer Res.* **74** 153. PMID: 24247719.

Sluijter et al (2014) Inhibition of CSF-1R supports T-cell mediated melanoma therapy. *PLoS One.* **9** e104230. PMID: 25110953.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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