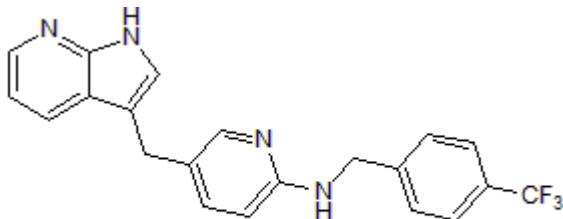


Certificate of Analysis**Product Name:** PLX 647 dihydrochloride**Catalog No.:** 5102**Batch No.:** 2**CAS Number:** 1779796-38-1**IUPAC Name:** 5-(1*H*-Pyrrolo[2,3-*b*]pyridin-3-ylmethyl)-*N*-[[4-(trifluoromethyl)phenyl]methyl]-2-pyridinamine dihydrochloride**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₂₁H₁₇F₃N₄.2HCl.1/4H₂O**Batch Molecular Weight:** 459.8**Physical Appearance:** Pale yellow solid**Solubility:** DMSO to 100 mM
ethanol to 100 mM**Storage:** Store at -20°C**Batch Molecular Structure:**

2HCl

2. ANALYTICAL DATA**TLC:** R_f = 0.4 (Chloroform:Methanol [95:5])**HPLC:** Shows >97.7% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 54.86 4.27 12.18

Found 54.9 4.33 12.02

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

Product Information

Product Name: PLX 647 dihydrochloride**Catalog No.:** 5102**Batch No.:** 2

CAS Number: 1779796-38-1

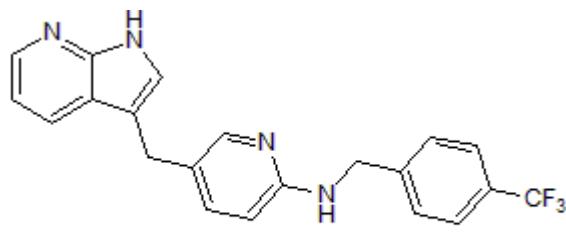
IUPAC Name: 5-(1*H*-Pyrrolo[2,3-*b*]pyridin-3-ylmethyl)-*N*-[[4-(trifluoromethyl)phenyl]methyl]-2-pyridinamine dihydrochloride**Description:**

Potent dual KIT/Fms inhibitor (IC_{50} values are 16 and 28 nM respectively). Inhibits BCR-FMS cell proliferation and osteoclast differentiation *in vitro* (IC_{50} values are 92 and 170 nM respectively). Attenuates LPS-induced TNF α and IL-6 release, mast cell activation and macrophage kidney proliferation *in vivo*.

Physical and Chemical Properties:Batch Molecular Formula: $C_{21}H_{17}F_3N_4.2HCl.1/4H_2O$

Batch Molecular Weight: 459.8

Physical Appearance: Pale yellow solid

Minimum Purity: >97%**Batch Molecular Structure:****Storage:** Store at -20°C**Solubility & Usage Info:**DMSO to 100 mM
ethanol 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.

References:

Zhang *et al* (2013) Design and pharmacology of a highly specific dual FMS and KIT kinase inhibitor. Proc.Natl.Acad.Sci.U.S.A. **110** 5689. PMID: 23493555.

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