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## Product Data Sheet

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Product Name: PLX 647 dihydrochloride

Cat. No.: GC50099

### Chemical Properties

Cas. No. 1779796-38-1

SMILES FC(C(C=C4)=CC=C4CNC(N=C3)=CC=C3CC2=CNC1=NC=CC=C12)(F)F.Cl.Cl

Formula  $C_{21}H_{17}F_3N_4 \cdot 2HCl$  M.Wt 455.3

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

### Background

Potent dual KIT/Fms inhibitor (IC50 values are 16 and 28 nM respectively). Inhibits BCR-FMS cell proliferation and osteoclast differentiation in vitro (IC50 values are 92 and 170 nM respectively). Attenuates LPS-induced TNF $\alpha$  and IL-6 release, mast cell activation and macrophage kidney proliferation in vivo.

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

**Caution: Product has not been fully validated for medical applications. For research use only.**

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