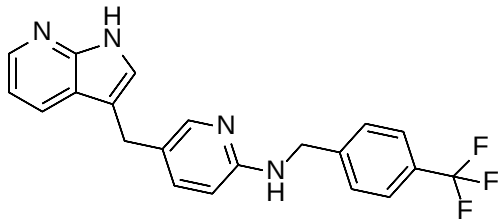
Product data sheet

MedKoo Cat#: 406530 Name: PLX-647 CAS: 873786-09-5 Chemical Formula: $C_{21}H_{17}F_3N_4$ Exact Mass: 382.1405 Molecular Weight: 382.3902	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years.
	In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:
PLX-647 is a potent inhibitor of both FMS and KIT that show strong selectivity compared with other kinases. In the in vitro enzymatic assay, PLX647 inhibits FMS with IC50 = 0.028μM and KIT with IC50 = 0.016 μM. PLX647 represents a unique class of kinase inhibitors with unique dual FMS and KIT specificity.

2. CoA, QC data, SDS, and handling instruction
SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under "QC And Documents" section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMSO	25.0	65.38

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.62 mL	13.08 mL	26.15 mL
5 mM	0.52 mL	2.62 mL	5.23 mL
10 mM	0.26 mL	1.31 mL	2.62 mL
50 mM	0.05 mL	0.26 mL	0.52 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator
Please refer the product web page under section of "Calculator"

6. Recommended literature which reported protocols for in vitro and in vivo study
In vitro study
TBD

In vivo study
TBD

7. Bioactivity
Biological target:
PLX647 is an orally active, highly specific dual FMS and KIT kinase inhibitor, with IC50s of 28 and 16 nM.

In vitro activity
TBD

In vivo activity
TBD

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.