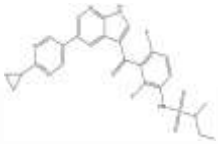
PRODUCT: PLX-7904

ALTERNATE NAME: 5-(2-Cyclopropylpyrimidin-5-yl)-3-[3-[[ethyl(methyl)sulfamoyl]amino]-2,6-difluorobenzoyl]-1H-pyrrolo[2,3-b]pyridine; PB04

CATALOG #: B1249-5,25

AMOUNT: 5 mg, 25 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{24}H_{22}F_2N_6O_3S$

MOLECULAR WEIGHT: 512.54

CAS NUMBER: 1393465-84-3

APPEARANCE: Off white to brown solid

SOLUBILITY: DMSO (>5 mg/ml)

PURITY: ≥98% by HPLC

STORAGE: Store at -20℃. Protect from air and light.

DESCRIPTION: PLX7904 is a potent and selective paradox-breaker RAF inhibitor. PLX7904 efficiently inhibits activation of ERK1/2 in mutant BRAF melanoma cells but does not hyperactivate ERK1/2 in mutant RAS-expressing cells. Importantly, it inhibits ERK1/2 phosphorylation in mutant BRAF melanoma cells with acquired resistance to Vemurafenib/PLX4720 that is mediated by a secondary mutation in NRAS. Consistent with ERK1/2 reactivation driving the re-acquisition of malignant properties, PLX7904 promotes apoptosis and inhibits entry into S phase and anchorage-independent growth in mutant N-RAS-mediated Vemurafenib-resistant cells.

REFERENCES:

Zhang, C*., et.al*. (2015). *Nature,* **526,** 583-586

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

B-Raf inhibitor I **(2599)**
CEP-32496 **(2599)**
Gossypin **(2374)**
GSK-2118436 mesylate **(2800)**
GW-5074 (**2412)**
PLX-4032 **(2235)**
PLX-4720 **(2813)**
PLX-7904 **(B1249)**
RAF265 (**2856)**
TAK-632 **(2473)**
ZM-336372 **(1789)**

USAGE: ***FOR RESEARCH CH USE ONLY! Not to be used in humans***

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