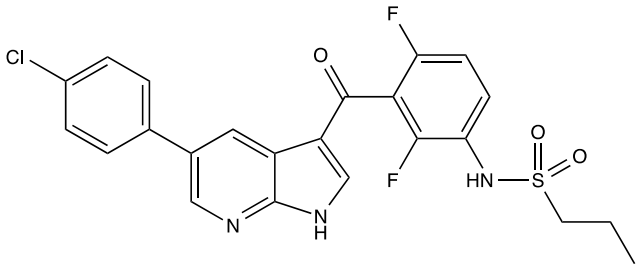
Catalog # 10-2928

PLX4032

918504-65-1

N-[3-[[5-(4-chlorophenyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]carbonyl]-2,4-difluorophenyl]-1-propanesulfonamide; Vemurafenib; R7204; RG-7204; Ro 51-85426

Lot # X107376



An ATP-competitive inhibitor of mutant V600E/F and wild type B-Raf, IC_{50}s=31 and 100 nM respectively.[1] Induced growth inhibition, G0/G1 arrest and apoptosis in a variety of cancer cell lines, with a B-Raf mutation favoring but not guaranteeing a response.[2] Inhibits the growth of B-Raf V600E-positive melanomas *in vitro* and *in vivo.*[3] Treatment of patients that carry the V600E BRAF mutation resulted in complete or partial tumor regression.[4]

1) Khazak *et al*. (2007), *Selective Raf inhibition in cancer therapy*; Expert Opin. Ther. Targets, **11** 1587

2) Tap *et al*. (2010), *Pharmacodynamic characterization of the efficacy signals due to selective BRAF inhibition with PLX4032 in malignant melanoma*; Neoplasia, **12** 637

3) Lee *et al*. (2010), *PLX4032, a potent inhibitor of the B-Raf V600E oncogene, selectively inhibits V600E-positive melanomas*; Pigment Cell Melanoma Res., **23** 820

4) Flaherty *et al*. (2010), *Inhibition of mutated, activated BRAF in metastatic melanoma*; N. Engl. J. Med., **363** 809

PHYSICAL DATA

Molecular Weight:	489.92
Molecular Formula:	$C_{23}H_{18}ClF_2N_3O_3S$
Purity:	99% by HPLC
Solubility:	DMSO (100mg/mL)
Physical Description:	White to Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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