



<b>Catalog Number:</b>	MC11115	<b>Product Type:</b>	Small Molecule
<b>Bio-Activity:</b>	B-Raf inhibitor	<b>CAS #:</b>	918504-65-1
<b>Research Categories:</b>	Cell death, cancer	<b>Chemical Name:</b>	N-[3-[[[5-(4-chlorophenyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]carbonyl]-2,4-difluorophenyl]-1-propanesulfonamide
<b>Solubility:</b>	Soluble in DMSO (up to 100 mg/ml).	<b>Molecular Formula:</b>	C23H18ClF2N3O3S
<b>Purity:</b>	> 98%	<b>Molecular Weight:</b>	489.92
<b>Format:</b>	Powder	<b>Ship Temp:</b>	Ambient
<b>Storage:</b>	-20°C		

### Application Notes

#### Description/Data:

An ATP-competitive inhibitor of mutant V600E/F and wild type B-Raf, IC50s=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].

#### References:

- 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

### FOR RESEARCH USE ONLY

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