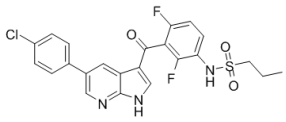
MOLNOVA
HIT YOUR RESEARCH TO LEAD

Datasheet (Version 1.0)

Product Name	:	Vemurafenib
Synonyms	:	PLX-4032;RG7204;RO5185426
Cat No.	:	M16593
CAS Number	:	918504-65-1
Molecular Formula	:	C23H18ClF2N3O3S
Formula Weight	:	489.92
Chemical Name	:	1-Propanesulfonamide, N-[3-[[5-(4-chlorophenyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]carbonyl]-2,4-difluorophenyl]-
Description	:	Vemurafenib (PLX-4032;RG7204;RO5185426) is a potent, selective B-RAF V600E inhibitor with IC50 of 30 nM, displays similar potency for c-RAF-1 (IC50=48 nM), and has selectivity against many other kinases, including wild type B-RAF (IC50=100nM); potently inhibits proliferation of a panel of tumor cell lines, selectively blocks the RAF/MEK/ERK pathway in BRAF mutant cells; causes tumor regressions and improves animal survival in tumor xenograft models of BRAF(V600E)-expressing melanoma.Skin Cancer Approved
Pathway	:	MAPK/ERK Signaling
Target	:	Raf
Receptor	:	ACK1;BLK;B-Raf;B-Raf(V600E);BRK;C-Raf;CSK;FGR;FRK(PTK5);Lck;LynB;MAP4K5(KHS1);MNK2;NEK11;Src;SRMS;WNK3;Yes1;c-Raf-1
Solubility	:	DMSO: 6.2 mg/mL
SMILES	:	CCCS(=O)(NC1=CC=C(F)C(C(C2=CNC3=NC=C(C4=CC=C(Cl)C=C4)C=C32)=O)=C1F)=O
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	



1. Bollag G, et al. Nature. 2010 Sep 30;467(7315):596-9.| 2. Joseph EW, et al. Proc Natl Acad Sci U S A. 2010 Aug 17;107(33):14903-8. | 3. Yang H, et al. Cancer Res. 2010 Jul 1;70(13):5518-27.| 4. Sndergaard JN, et al. J Transl Med. 2010 Apr 20;8:39.