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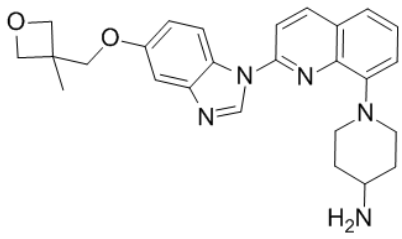
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Crenolanib
Cat. No.	:	PC-43403
CAS No.	:	670220-88-9
Molecular Formula	:	$C_{26}H_{29}N_5O_2$
Molecular Weight	:	443.5408
Target	:	FLT3
Solubility	:	10 mM in DMSO



Biological Activity

Crenolanib (CP-868596) is a potent, selective **PDGFR/Flt-3** inhibitor with Ki of 3.2, 2.1 and 0.74 nM for wild-type PDGFRα, PDGFRβ and FLT3, respectively.
Crenolanib (CP-868596) displays >100-fold more selective for PDGFR than c-Kit, VEGFR-2, TIE-2, FGFR-2, EGFR, erbB2, and Src.
Crenolanib (CP-868596) also is a potent inhibitor of PDGFRα D842V-mutant kinase with IC50 of 10 nM, significantly more potent than imatinib in inhibiting the kinase activity of imatinib-resistant PDGFRA kinases (D842I, D842V, D842Y, DI842-843IM, and deletion I843).
Crenolanib is active against models of drug-resistant FLT3-ITD-positive AML.

References

Heinrich MC, et al. ***Clin Cancer Res.*** 2012 Aug 15;18(16):4375-84.

Zimmerman EI, et al. ***Blood.*** 2013 Nov 21;122(22):3607-15.

Galanis A, et al. ***Blood.*** 2014 Jan 2;123(1):94-100.

Smith CC, et al. ***Proc Natl Acad Sci U S A.*** 2014 Apr 8;111(14):5319-24.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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