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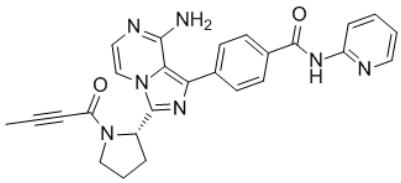
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Acalabrutinib
Cat. No.	:	PC-45383
CAS No.	:	1420477-60-6
Molecular Formula	:	$C_{26}H_{23}N_7O_2$
Molecular Weight	:	465.5065
Target	:	BTK
Solubility	:	DMSO: ≥ 31 mg/mL



Biological Activity

Acalabrutinib (ACP-196) is a potent, irreversible, covalent second-generation **BTK** inhibitor with IC50 of 3 nM.
Acalabrutinib (ACP-196) is more potent and selective than ibrutinib, and does not inhibit EGFR, Itk or Txk.
Acalabrutinib (ACP-196) inhibits tyrosine phosphorylation of downstream targets of ERK, IKB, and AKT, in the in vitro signaling assay on primary human CLL cells.
Acalabrutinib (ACP-196) inhibits anti-IgM-induced CD86 expression in CD19+ splenocytes with an ED50 of 0.34 mg/kg in mice.
Acalabrutinib (ACP-196) has promising safety and efficacy profiles for CLL treatment; orally active.

References

Byrd JC, et al. ***N Engl J Med***. 2016 Jan 28;374(4):323-32.

Herman SEM, et al. ***Clin Cancer Res***. 2017 Jul 15;23(14):3734-3743.

Niemann CU, et al. ***Clin Cancer Res***. 2017 Jun 23. pii: clincanres.0650.2017.

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