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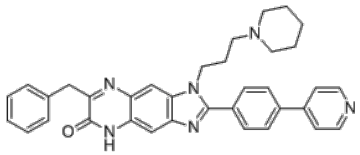
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	CTA056
Cat. No.	:	PC-35182
CAS No.	:	1265822-30-7
Molecular Formula	:	$C_{35}H_{34}N_6O$
Molecular Weight	:	554.698
Target	:	ITK
Solubility	:	10 mM in DMSO



Biological Activity

CTA056 (CTA 056) is a potent, selective inhibitor of interleukin-2-inducible T-cell kinase (**ITK**) with IC50 of ~100 nM, also inhibits Btk (IC50=400 nM), but shows no significant inhibition for Etk (BMX kinase, IC50=5 uM).
CTA056 shows selectivity for Itk over other Tec family members; inhibits the phosphorylation of Itk and its effectors including PLC-γ, Akt, and ERK, as well as the decreased secretion of targeted genes such as IL-2 and IFN-γ in treated Jurkat and MOLT-4 cells.
CTA056 also exhibits apoptosis-inducing potential in Jurkat cells.
CTA056 demonstrates cytotoxic effect in xenograft models of T-cell leukemia and lymphoma.

References

Guo W, et al. ***Mol Pharmacol***. 2012 Nov;82(5):938-47.

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