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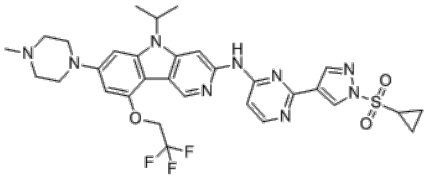
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	CH7233163
Cat. No.	:	PC-38170
CAS No.	:	2923365-71-1
Molecular Formula	:	$C_{31}H_{34}F_3N_9O_3S$
Molecular Weight	:	669.728
Target	:	EGFR
Solubility	:	10 mM in DMSO



Biological Activity

CH7233163 is a novel potent, selective mutant **EGFR**-Del19/T790M/C797S inhibitor with IC50 of 0.28 nM in biochemical assays.
EAI-045, an allosteric EGFR inhibitor, didn't show inhibitory activity in this assay (IC50>1 uM).
CH7233163 potently inhibited the proliferation of Del19/T790M/C797S_NIH3T3 cells with IC50 of 20 nM, potently and dose dependently blocked the EGFR phosphorylation.
CH7233163 more selectively inhibits various types of EGFR mutants (e.g., L858R/T790M/C797S, L858R/T790M, Del19/T790M, Del19, and L858R) over wild type.
CH7233163 potently inhibited not only EGFR-Del19/T790M/C797S but also various EGFR mutations, including L858R/T790M/C797S triple mutations, double mutations and single-activating-mutations.

References

Kenji Kashima, et al. ***Mol Cancer Ther.*** 2020 Nov;19(11):2288-2297.

E-mail: tech@probechem.com