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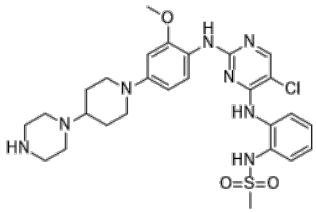
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	BBT-176
Cat. No.	:	PC-23647
CAS No.	:	2254805-55-3
Molecular Formula	:	$C_{27}H_{35}ClN_8O_3S$
Molecular Weight	:	587.14
Target	:	EGFR
Solubility	:	10 mM in DMSO



CAS: 2254805-55-3

Biological Activity

BBT-176 is a potent, mutant-selective fourth-generation inhibitor of **EGFR C797S mutations** with IC50 of 4.36, 1.79, and 5.35 nM for EGFR 19Del/C797S, EGFR 19Del/T790M/C797S, and EGFR L858R/C797S, respectively.
BBT-176 selectively and noncovalently inhibits triple-mutant EGFR 19Del/T790M/C797S and L858R/T790M/C797S at nanomolar concentrations.
BBT-176 has IC50 of 42, 49, 183, and 202 nM against Ba/F3 cells expressing EGFR 19Del/C797S, EGFR 19Del/T790M/C797S, EGFR L858R/C797S, and EGFR L858R/T790M/C797S, respectively.
BBT-176 strongly inhibited the tumor growth, and in some conditions induced tumor regression in mouse models.

References

Lim SM, et al. ***Clin Cancer Res***. 2023 Aug 15;29(16):3004-3016.

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

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