Product Datasheet

AZD5104

Catalog No. **BP-02312** · CAS **1421373-98-9** · Form **free base** · Physical state **solid** · Color **white to off-white** · Version **1.0** · Revision **2026-09-10**

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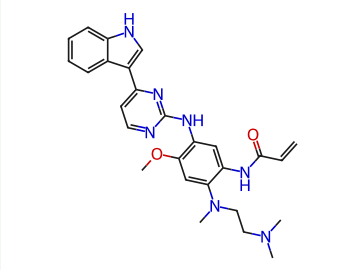
Target	Research area
EGFR	**Cancer**

Molecular formula	$C_{27}H_{31}N_7O_2$
Molecular weight	**485.5807**

STRUCTURE



DESCRIPTION

AZ-5104 is an active, demethylated metabolite of AZD 9291. AZ-5104 is an EGFR inhibitor with IC50s of 1, 6, 1, 25 and 7 nM for EGFR L858R/T790M, EGFR L858R, EGFR L861Q, EGFR and ErbB4, respectively.

BIOLOGICAL ACTIVITY

In Vitro

AZ-5104 inhibits EGFR phosphorylation with IC50s of 2, 1, 2, 53, and 33 nM in H1975 (EGFRL858R/T790M), PC-9VanR (EGFRExon 19 deletion/T790M), PC-9 (EGFRExon 19 deletion), H2073 (WT), and LOVO (WT), respectively. AZ5104 exhibits a reduced selectivity margin against wild-type EGFR when compared to AZD9291. AZ5104 display minimal off-target activity against other non-HER family kinases, but has the potential to target both HER2 and HER4 kinase activity.

In Vivo

The metabolite, AZ5104 (5 mg/kg/day), is effective in shrinking tumors in both C/L858R and C/L+T mice.

SOLUBILITY

Soluble in DMSO

REFERENCES

[1]. Finlay MR, et al. Discovery of a potent and selective EGFR inhibitor (AZD9291) of both sensitizing and T790M resistance mutations that spares the wild type form of the receptor. J Med Chem. 2014 Oct 23;57(20):8249-67.