
Product Data Sheet

Product Name: AZ7550 hydrochloride

Cat. No.: GC34287

Chemical Properties

Cas. No. 2309762-40-9

SMILES C=CC(NC1=CC(NC2=NC=CC(C3=CN(C)C4=C3C=CC=C4)=N2)=C(OC)C=C1N(C)CCNC)=O.[H]Cl

Formula $C_{27}H_{32}ClN_7O_2$ M.Wt 522.04

Solubility DMSO : 1.88 mg/mL (3.60 mM) Storage Store at -20°C

General For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT , or Condition blue ice upon request.

Structure

Protocol

Kinase experiment:

Biochemical enzyme profiling of AZD9291 and active metabolites across the kinome panel (single profiling experiment representative of two independent studies). % inhibition for kinases in the ~280 kinase panel that shows greater than 60% inhibition after 1 μM treatment with AZD9291, AZ5104 or AZ7550, and follow-up IC50s where tested, are shown. Kinases with a conserved cysteine in the analogous position within their catalytic domain as Cys797 in EGFR are also shown, highlighted in bold[1].

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

AZ 7550 is an active metabolite of AZ 9291.¹ It inhibits the insulin-like growth factor 1 receptor (IGF-1R) in a cell-free assay ($IC_{50} = 1.6 \mu M$). It inhibits EGFR autophosphorylation in H1975 and PC-9 cells expressing the respective constitutively active mutants EGFR^{T790M/L858R} and EGFR^{Exon19del} (IC_{50} s = 0.045 and 0.026 μM , respectively), as well as in LoVo cells expressing wild-type EGFR ($IC_{50} = 0.786 \mu M$).

1. Finlay, M.R., Anderton, M., Ashton, S., 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.* 57(20):8249-8267(2014)

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