

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)CCN(C)=O.[H]Cl

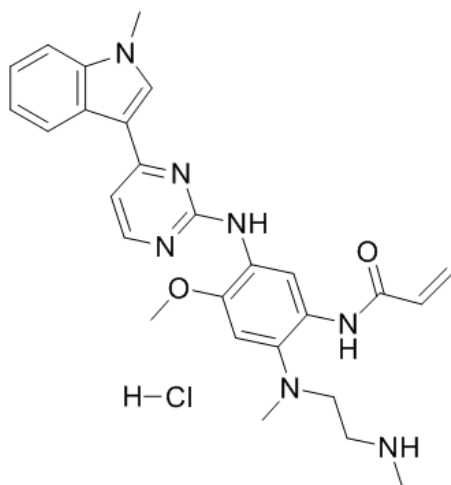
Formula $C_{27}H_{32}ClN_7O_2$ M.Wt 522.04

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

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

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

Structure



Protocol

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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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 μ M 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.

Background

AZ7550 hydrochloride is an active metabolite of AZD9291 and inhibits the activity of IGF1R with an IC50 of 1.6 μ M.

AZ7550 (Compound 28) appears to offer a broadly similar potency and selectivity profile to the parent compound AZD9291. AZ7550 inhibits double mutant (DM) cell line H1975, activating mutant (AM) cell line PC9, and wild type (WT) cell line LoVo with IC50s of 45, 26, and 786 nM, respectively. AZ7550 inhibits DM antiproliferative cell line H1975, AM antiproliferative cell line PC9, and WT antiproliferative cell line Calu3 with GI50s of 19, 15, and 537 nM, respectively[1].

[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.

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