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AZ7550 hydrochloride

Catalog No: tcsc0034377

Available Sizes

Size: 5mg

Size: 10mg

Specifications

Formula:
$C_{27}H_{32}ClN_7O_2$

Pathway:
Protein Tyrosine Kinase/RTK;Metabolic Enzyme/Protease

Target:
IGF-1R;Drug Metabolite

Purity / Grade:
>98%

Solubility:
DMSO : 1.88 mg/mL (3.60 mM; Need ultrasonic and warming)

Observed Molecular Weight:
522.04

Product Description

AZ7550 hydrochloride is an active metabolite of AZD9291 and inhibits the activity of **IGF1R** with an **IC_{50}** of 1.6 μM.

IC50 & Target: IC50: 1.6 μM (IGF1R), 88 nM (MLK1), 156 nM (ACK1), 195 nM (ErbB4), 228 nM (MNK2), 302 nM (FLT3), 420 nM (ALK), 449 nM (FES), 840 nM (IRR), 843 nM (BRK), 977 nM (BLK), 995 nM (FAK), 1256 nM (Ins R), 1317 nM (TEC), 1784 nM (FLT4), 2288 nM (PYK2), 2443 nM (Txk), 5104 nM (BTK)[1]

In Vitro: AZ7550 (Compound 28) appeares 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 IC_{50}s of 45, 26, and 786 nM, respectively. AZ7550 inhibits DM antiproliferative cell line H1975, AM antiproliferative cell line PC9,

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and WT antiproliferative cell line Calu3 with GI_{50}s of 19, 15, and 537 nM, respectively[1].