

Product Data Sheet

Product Name: WZ8040

Cat. No.: GC11250

Chemical Properties

Cas. No. 1214265-57-2

Chemical Name N-[3-[5-chloro-2-[4-(4-methylpiperazin-1-yl)anilino]pyrimidin-4-yl]oxyphenyl]prop-2-enamide

SMILES CN1CCN(CC1)C2=CC=C(C=C2)NC3=NC=C(C(=N3)SC4=CC=CC(=C4)NC(=O)C=C)Cl

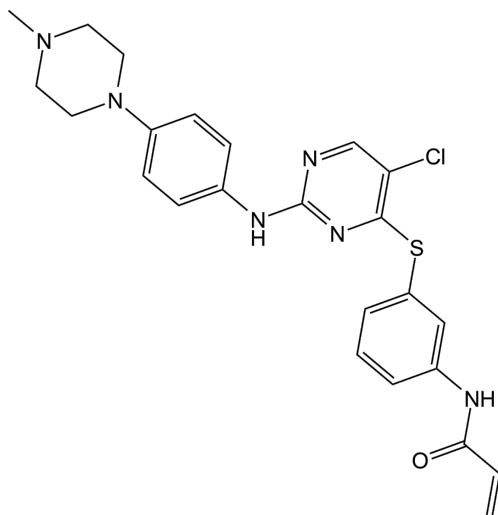
Formula $C_{24}H_{25}ClN_6OS$ M.Wt 481.01

Solubility $\geq 24.05\text{mg/mL}$ in DMSO 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



Background

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

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WZ8040 is a novel, irreversible mutant-selective EGFR kinase inhibitor that specifically inhibits phosphorylation of EGFR T790M.

WZ8040 shows to suppress the growth of EGFR T790M containing cell lines as well as inhibit phosphorylation of EGFR in the Non-Small-Cell Lung Cancer (NSCLC) cells. WZ8040 was identified from the screen that possessed up to a 300-fold lower IC₅₀ against the PC9GR cells compared to clinical stage inhibitors such as HKI-272 [1].

References:

[1] Zhou W1, Ercan D, Chen L, Yun CH, Li D, Capelletti M, Cortot AB, Chirieac L, Iacob RE, Padera R, Engen JR, Wong KK, Eck MJ, Gray NS, Jänne PA. Novel mutant-selective EGFR kinase inhibitors against EGFR T790M. *Nature*. 2009 Dec 24;462(7276):1070-4. doi: 10.1038/nature08622.

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