## WZ8040

Cat. No.:	HY-12029		
CAS No.:	1214265-57-2		
Molecular Formula:	C <sub>24</sub> H <sub>25</sub> CIN <sub>6</sub> OS		
Molecular Weight:	481.01		
Target:	EGFR		
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

## SOLVENT & SOLUBILITY

In Vitro DMSO : 25 mg/mL (51	DMSU : 25 mg/mL (51.9	Solvent Mass Concentration	1 mg	5 mg	10 mg	
	1 mM	2.0790 mL	10.3948 mL	20.7896 mL		
		5 mM	0.4158 mL	2.0790 mL	4.1579 mL	
		10 mM	0.2079 mL	1.0395 mL	2.0790 mL	
	Please refer to the so	e solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1 mg/mL (2.08 mM); Clear solution					
	<ol> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline)</li> <li>Solubility: ≥ 1 mg/mL (2.08 mM); Clear solution</li> </ol>					

DIOLOGICAL ACTIV				
Description	WZ8040 is an irreversible muta greater activity against the mu	ated EGFR T790M inhibitor and in utated EGFR than the normal <sup>[1]</sup> .	hibits EGFR phosphorylation. W2	Z8040 displays 100-fold
IC <sub>50</sub> & Target	EGFR Del E746_A750 1 nM (IC <sub>50</sub> , in HCC827 cells)	EGFR Del E746_A750 6 nM (IC <sub>50</sub> , in PC9 cells)	EGFR L858R 66 nM (IC <sub>50</sub> , in H3255 cells)	EGFR L858R/T790M 9 nM (IC <sub>50</sub> , in H1975 cells)
	EGFR Del E746_A750/T790M 8 nM (IC <sub>50</sub> , in PC9 GR cells)	EGFR E746_A750/MET amp >3.3 µM (IC <sub>50</sub> , in HCC827 GR cells)	ERBB2 amp 738 nM (IC <sub>50</sub> , in H1819 cells)	ERBB2 amp 915 nM (IC <sub>50</sub> , in Calu-3 cells)

## **Product** Data Sheet





	ERBB2 Ins G776V, C 744 nM (IC <sub>50</sub> , in H1781 cells)	EGFR & ERBB2 WT 1.82 μM (IC <sub>50</sub> , in HN11 cells)		
In Vitro	WZ8040 exhibits IC <sub>50</sub> values of 1 nM for HCC827 (EGFR Del E746_A750), 6 nM for PC9 (EGFR Del E746_A750), 66 nM for H3255 (EGFR L858R), 9 nM for H1975 (EGFR L858R/T790M), 8 nM for PC9 GR (EGFR Del E746_A750/T790M), >3.3 μM for HCC827 GR (EGFR E746_A750/MET amp), 738 nM for H1819 (ERBB2 amp), 915 nM for Calu-3 (ERBB2 amp), 744 nM for H1781 (ERBB2 Ins G776V, C), 1.82 μM for HN11 (EGFR & ERBB2 WT), respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis <sup>[1]</sup>			
	Cell Line:	NSCLC cell lines and Ba/F3 cells.		
	Concentration:	0-3.3 μΜ.		
	Incubation Time:	24 hours.		
	Result:	Exhibited activity for EGFR-mutated NSCLC lines, such as HH827, PC9, H3255, H1819, Calu- 3, H1781 and HN11 cells.		

## REFERENCES

[1]. Zhou W, et al. Novel mutant-selective EGFR kinase inhibitors against EGFR T790M. Nature. 2009 Dec 24;462(7276):1070-4.

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

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